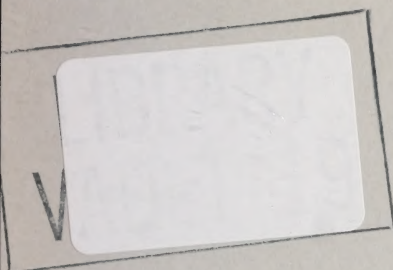


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ANNUAL REPORT

OF THE

**DEPARTMENT
OF HIGHWAYS**

OF THE

PROVINCE OF ALBERTA

1963 - 64

PUBLISHED BY
ORDER OF THE LEGISLATIVE ASSEMBLY

1964
Printed by LEE S. WALL, Printer to the Queen's Most Excellent Majesty
EDMONTON, ALBERTA



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EDMONTON, October 16, 1964

To His Honour,

J. PERCY PAGE,

Lieutenant Governor of the Province of Alberta.

Sir:

The undersigned has the honour to submit herewith the Report of the Department of Highways for the year ended March 31, 1964.

Respectfully submitted,

GORDON E. TAYLOR,

Department of Highways.

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

**REPORT OF THE
DEPUTY MINISTER OF HIGHWAYS
For the Fiscal Year Ended March 31, 1964**

Hon. Gordon E. Taylor,
Minister of Highways.

Sir:

I have the honour to submit herewith a report covering the activities of the Department of Highways for the fiscal year ended March 31, 1964.

HIGHWAYS MAINTENANCE AND FERRIES

Maintenance mileage of main and secondary highways during the year was 6,352.04, access roads to towns etc., being included. The average Maintenance cost per mile was \$879.13. An amount of \$5,825,508.44 was expended for main and secondary highways. An amount of \$11,508,297.27 was expended for construction and maintenance of district highways, access roads to towns etc., local roads, etc., in Improvement and Municipal Districts, Counties and Special Areas.

A total of 30 ferries were operated by the Province with an expenditure of \$298,413.28 being incurred for the operation, maintenance and replacement of same.

Expenditures incurred covering the construction of Wayside Camp Kitchens shows a total of \$6,011.79.

Expenditures incurred under the Winter Works Incentive Programme was in the amount of \$1,433,127.14.

A separate report concerning the activities of the Roads Maintenance Branch is contained herein.

HIGHWAYS CONSTRUCTION

During the construction season of 1963 - 64, totals of 373.44 miles of subgrade construction were completed, 43.22 miles of subgrade were widened, 5.86 miles of grade were reconditioned and 388.33 miles of highways were gravel surfaced.

In addition, 238.93 miles of stabilized gravel base course and 101.26 miles of cement stabilized base-course were placed. 292.23 miles of asphaltic plant mix surface course, 234.44 miles of asphaltic seal coat surfacing and 18.08 miles of double asphaltic surface treatment were completed, making a total of 1,695.79 miles of work done in the fiscal year.

A separate report concerning the activities of the Main Highways Construction Branch is contained herein.

BRIDGE CONSTRUCTION AND MAINTENANCE

A total of 505 bridge structures were proceeded with under the construction programme for the fiscal year, 453 of these being of the standard type, the balance being of a major or semi-major category, eighteen of which were under construction on main highways and thirty-three on district roads. In addition, 277 bridges were repaired, along with 249 culvert structures of precast concrete, corrugated metal pipe and timber were constructed. The structures on main highways include twelve grade separations.

A separate report of the Chief Bridge Engineer is contained herein.

SURVEYS

The activities of this branch are contained in the report of the Director of Surveys shown herein.

LOCATIONS

The activities of this branch are contained in the report of the Chief Locations Engineer shown herein.

MOTOR VEHICLES BRANCH

The activities of this branch are contained in the report of the Registrar of Motor Vehicles shown herein.

Respectfully submitted,

L. H. McMANUS,

Deputy Minister of Highways.

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

STATEMENT OF LEGISLATIVE AND EXECUTIVE APPROPRIATIONS,
EXPENDITURES AND UNEXPENDED BALANCES

For the Year Ended March, 31, 1964

No. of Apprn.	Service	INCOME ACCOUNT					
		Legislative	Executive	Total	Expended	Unexpended	Over- Expended
1501.	Minister's Office	\$ 22,110.00	\$ —	\$ 22,110.00	\$ 21,443.75	\$ 666.25	\$ —
1502.	General Administration	344,270.00	—	344,270.00	312,768.42	31,501.58	—
1510.	Roads Branch Maintenance— Administration	416,960.00	—	416,960.00	413,503.79	3,456.21	—
1511.	Ferries—Maintenance and Operation	300,000.00	—	300,000.00	298,413.28	1,586.72	—
1512.	Main and Secondary Highways and Access Roads—Maintenance	5,250,000.00	900,000.00	6,150,000.00	5,825,508.44	324,491.56	—
1513.	District Highways and Local Roads Grants to Improvement Districts	3,750,000.00	350,000.00	4,100,000.00	3,843,742.66	256,257.34	—
1514.	District Highways and Local Roads Grants to Special Areas	250,000.00	—	250,000.00	250,000.00	—	—
1515.	District Highways and Local Roads Grants to Municipal Districts	4,250,000.00	—	4,250,000.00	4,252,329.88	—	2,329.88
1516.	District Highways and Local Roads Special Contingencies	2,750,000.00	—	2,750,000.00	2,674,658.16	75,341.84	—
1518.	District Highways and Local Roads Natural Resources Roads	500,000.00	—	500,000.00	487,566.57	12,433.43	—
1530.	Bridges—Maintenance and Replacement —Salaries	310,050.00	—	310,050.00	287,971.17	22,078.83	—
1531.	Bridges—Maintenance and Replacement Main and Secondary Highways	250,000.00	—	250,000.00	206,465.85	43,534.15	—
1532.	Bridges—Maintenance and Replacement Municipal and Improvement Districts— Bridges	2,500,000.00	—	2,500,000.00	2,178,339.65	321,660.35	—
1533.	Bridges—Maintenance and Replacement Municipal and Improvement Districts— Bridge Approaches	500,000.00	—	500,000.00	508,067.34	—	8,067.34
1540.	Highway Safety Control	79,450.00	—	79,450.00	76,285.71	3,164.29	—
1541.	Approach Roads	500,000.00	200,000.00	700,000.00	563,046.77	136,953.23	—
1542.	Highway Portion of Five Year Program	300,000.00	—	300,000.00	259,999.24	40,000.76	—
1550.	Motor Vehicle Branch	1,741,390.00	—	1,741,390.00	1,690,652.97	50,737.03	—
1551.	Grants to Municipalities for Structures and Roads	1,250,000.00	—	1,250,000.00	924,440.11	325,559.89	—
1552.	Highways Repair Shop	46,270.00	—	46,270.00	40,841.51	5,428.49	—
	Special Warrants 1 & 31/63 - 64 (Municipal winter works incentive program, brushing, clearing, preparation of fence posts, gravel crushing and stockpiling, gravelling, con- struction and reconstruction of local and market roads in improvement districts)	—	1,550,000.00	1,550,000.00	1,433,127.14	116,872.86	—
TOTAL: Income Account		\$25,310,500.00	\$ 3,000,000.00	\$28,310,500.00	\$26,549,172.41	\$1,761,327.59 (Net)	—
		CAPITAL ACCOUNT					
		Legislative	Executive	Total	Expended	Unexpended	Over- Expended
1581.	Surveys and Compensation for Lands	\$ 771,710.00	\$ —	\$ 771,710.00	\$ 734,059.20	\$ 37,650.80	\$ —
1583.	Bridges—Construction	5,000,000.00	—	5,000,000.00	4,632,741.27	367,258.73	—
1584.	Main Highways Construction	30,000,000.00	—	30,000,000.00	28,691,325.75	1,308,674.25	—
1587.	Highway Locations	262,060.00	—	262,060.00	177,931.25	84,128.75	—
1588.	Wayside Campsites	5,000.00	—	5,000.00	6,011.79	—	1,011.79
1589.	Roads to Resources—Highways	3,000,000.00	—	3,000,000.00	1,840,532.64	1,159,467.36	—
1590.	Roads to Resources—Bridges	200,000.00	—	200,000.00	193,676.78	6,323.22	—
TOTAL: Capital Account		\$39,238,770.00	—	\$39,238,770.00	\$36,276,278.68	\$ 2,962,491.32 (Net)	—

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

MAINTENANCE BRANCH

MAINTENANCE OF MAIN AND SECONDARY HIGHWAYS,
ACCESS ROADS TO TOWNS AND VILLAGES,
DISTRICT HIGHWAYS AND LOCAL ROADS,
COUNTIES, LOCAL IMPROVEMENT AND MUNICIPAL DISTRICTS,
FERRIES OPERATION, MAINTENANCE, REPLACEMENTS AND
INSTALLATIONS,
WAYSIDE CAMP SITES,
WINTER WORKS INCENTIVE PROGRAMME.

J. P. CHURCH,

Acting Chief Maintenance Engineer.

The maintenance of main and secondary highways, the maintenance of access roads to towns and villages, the construction and maintenance of district highways and local roads in Counties and Municipal Districts where assistance is given by grants, and the operation, maintenance and construction of ferries were carried out under the supervision of ten District Engineers and nine Assistant District Engineers. Maintenance of wayside camp sites operated by Department of Highways was also supervised by the District Engineers.

Weather conditions during the 1963 - 64 season were excellent and little difficulty was experienced on work undertaken in this period. The construction programme, as a result of the good weather, was completed within the extent of the funds available for the purpose.

The weather during the winter was exceptionally mild with light snow falls. No difficulty was experienced with snow removal. Ice control by the application of salt and sand was exceptionally light during the winter and little difficulty was experienced.

An agreement was completed with the Federal Government to institute a Winter Works Incentive Programme to provide winter employment for seasonal employees. Work under this agreement commenced November 1st, 1963 and terminated on April 30th, 1964. A total of 40,699.5 man-days employment was provided by this programme during the fiscal year ending March 31st, 1964. This figure includes the employment created by the Winter Works Incentive Programme during April and May 1963 under the agreement in effect with the Federal Government for the fiscal year 1962 - 63. Approved labour costs for work undertaken under this programme were paid 50% by the Federal Government, 25% by the Department of Municipal Affairs and 25% by the Department of Highways under Special Warrants 1 and 31.

Detailed information covering expenditures for the fiscal year 1963 - 64 is contained in the following statements as submitted with this report:

(1) Statement showing mileages and expenditures on maintenance of main and secondary highways and access roads to towns and villages:

	Gravel	Asphalt	Concrete	Total
Main highways — miles	887.00	2,994.00	3.00	3,884.00
Secondary highways — miles	1,440.00	915.00	—	2,355.00
Access roads — miles	90.11	22.93	—	113.04
Totals	2,417.11	3,931.93	3.00	6,352.04

Regravelling of main and secondary highways, maintenance, snow removal, ice control, centreline striping, pavement messages at railway crossings, school zones, intersections and other locations, the erection of traffic safety, control, directional and informational signs on highways and access roads to towns and villages and the maintenance of wayside camp sites adjacent to highways were carried out. Following are the details of expenditures:

General maintenance	6,352.04 miles	\$3,686,040.42
Snow removal	6,352.04 "	405,468.75
Ice control	6,352.04 "	761,376.52
Regravelling	499.00 "	579,472.39
Centreline striping and pavement messages	3,880.50 "	179,470.03
Erection and maintenance of high- way and access road signing		213,680.33
Total		\$5,825,508.44

(2) Statement showing the distribution of expenditures from Income Account on the construction and maintenance of district highways and local roads in Improvement Districts, Counties, Municipal Districts and Special Areas, as follows:

Local Improvement Districts	\$ 3,843,742.66
Counties and Municipal Districts	4,252,329.88
Special areas	250,000.00
Special contingencies	2,674,658.16
Natural resources roads	487,566.57
Total	\$11,508,297.27

Details of work accomplished as follows:

Miles of road graded	2,753.00 miles
Miles of road gravelled	5,880.70 "
Miles of road asphalt surfaced	98.30 "

(3) Statement showing expenditures by the operation and maintenance of ferries from Income Account. There were 30 ferries operated by the Department of Highways during the 1963 season. Replacement scows were constructed at the following ferry sites to replace condemned scows:

South of Rolling Hills
South of Crowfoot

The completion of the bridge over the narrows at Lac Ste. Anne permitted the elimination of the Lac Ste. Anne ferry. The completion of bridges over the North Saskatchewan River at Heinsburg and south

of Waskatenau permitted the elimination of the Lindbergh ferry, the Heinsburg ferry, the Waskatenau ferry and the Warspite ferry. The completion of the bridge south of Girouxville over the Little Smoky River permitted the elimination of the ferry south of Falher.

Statement of ferry expenditure as follows:

Operation and maintenance of ferries, including scow replacements detailed above (Vote 1511)	\$298,413.28
Total	\$298,413.28

(4) Statement showing the expenditures incurred from Vote 1588 covering the construction of Wayside Camp Sites as follows:

Land purchase settlements for camp sites	\$ 640.00
Camp site constructed at bridge site south of Girouxville on Little Smoky River	5,371.79
Total	\$6,011.79

The camp site constructed as shown above, was constructed entirely with Departmental funds. No camp site construction programme with the Federal Government was in effect during the fiscal year 1963 - 64.

(5) Statement showing the expenditures incurred under the Winter Works Incentive Programme as follows:

Work performed under Special Warrants 1 and 31 at March 31, 1964, under agreement with the Federal Government	\$ 1,433,127.14
---	-----------------

(6) Total expenditures as follows:

Highway and access roads maintenance	\$ 5,825,508.44
Improvement Districts, Counties, Municipal Districts and Special Areas	11,508,297.27
Ferries — Construction, operation and maintenance ..	298,413.28
Wayside camp sites — Construction and land settlement	6,011.79
Winter Works Incentive Programme	1,433,127.14
Total Expenditure	<u>\$19,071,357.92</u>

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

EXPENDITURE ON MAINTENANCE OF MAIN AND SECONDARY
HIGHWAYS, ACCESS ROADS, ETC.

For the Year Ended March 31, 1964

Hwy. No.	Location	Miles	Amount
1A	Walsh — Bassano	124	\$ 42,290.35
3A	Medicine Hat — Grassy Lake	49	10,194.23
36B	Bow River — Red Deer River	49	60,525.20
41A	Jct. Hwy. 1 — Acadia Valley	42	35,975.91
48A	Irvine — Wildhorse	71	71,377.76
61A	Skiff — North of Manyberries	57	25,392.35
2A	Carway — Nanton	104	45,707.67
3B	Grassy Lake — Crowsnest	149	102,950.52
4A	Lethbridge — Coutts	65	17,307.42
5A	Lethbridge — Waterton Park Gates	71	26,770.00
6A	Pincher — Waterton Park Gates	30	19,618.65
23A	Monarch — Carmangay	25	6,557.91
25A	Lethbridge — East of Bow River	38	12,255.96
36A	Taber — Bow River	34	4,750.13
40A	Cardston — Immigrant Gap	15	3,444.73
52A	Welling — Craddock	15	5,848.24
61B	Stirling — Skiff	34	4,453.28
62A	Magrath — Del Bonita	32	12,718.82
1B	Bassano — Banff Park Gates	143	103,875.94
1B1	Chestermere — W. of Jct. Hwy. 1	74	40,263.74
1X	Seebe Connection	3	1,780.25
2B	Nanton — Didsbury	78	66,633.54
2B1	Hwy. 2A DeWinton — South	33	17,358.82
2B2	Hwy. 2A Didsbury — South	14	7,028.32
7A	Okotoks — Longview	24	9,155.07
8A	Calgary — Bowness	7	1,113.60
9A	Inverlake — S.E. 16-28-21-4	68	24,523.53
9B	S.E. 16-28-21-4 — Alsask	134	39,152.03
10A	Drumheller — Wayne	17	9,052.01
21A	Jct. 9 — Twining	30	5,112.09
22A	Midnapore — Black Diamond	30	32,529.74
23B	Carmangay — High River	60	12,301.80
24A	Vulcan — Cheadle	44	30,063.41
26A	Jct. Hwy. 9 — Beiseker	33	17,030.36
36C	Red Deer River — Garden Plains	61	29,700.67
41B	Acadia Valley — New Brigden	2	36.72
2D	Wetaskiwin — Edmonton	37	81,878.89
13A	Hayter — Wetaskiwin	156	76,670.05
14A	Jct. Hwy. 17 — Edmonton	163	106,926.23
15B	Ft. Saskatchewan — Mundare — Hwy. 16	43	21,138.56
16A	Lloydminster — Edmonton	150	125,947.90
16A1	Edmonton — Clover Bar via Refineries	5	6,299.95
17A	*Lloydminster — South and North	83	36,712.67
21C	Bashaw — Jct. Hwy. 14	68	52,429.20
36D	Battle River — Saskatchewan River	102	113,186.50
41C	Czar — Saskatchewan River	101	77,359.02
45A	Jct. Hwy. 15 — Jct. Hwy. 17	150	112,485.07
55A	Bremner — Ft. Saskatchewan	10	5,038.84
2C	3 Miles S. of Didsbury Corner — Wetaskiwin	98	123,614.30
2C1	Hwy. 2A Didsbury — 2 Miles S. of Red Deer	36	31,515.58
11A	Red Deer — Edwards Bridge	129	116,038.65
12A	Compeer — Nevis	142	61,380.53
12B	Nevis — Norbuck	97	63,758.54
19A	Wetaskiwin — Norbuck	51	50,510.65
20A	Bentley — Sylvan Lake	10	10,613.56
21B	Twining — Bashaw	74	22,761.79
27A	Sundre — Jct. Hwy. 21	61	39,656.34

Hwy. No.	Location	Miles	Amount
36C	Garden Plains — Battle River	41	16,984.35
42A	Penhold — Lousana	27	12,836.74
50A	Tees — Mirror	9	2,168.12
51A	Bentley — Gilby	19	23,686.63
53A	Rimbey — Jct. Hwy. 21	55	30,403.52
54A	Innisfail — Ricinus	43	32,097.46
56A	Stettler — Morrin	47	36,437.58
28B	Spedden — Cold Lake	103	120,976.10
36E	Duvernay — St. Brides	20	7,724.69
36E	Jct. Hwy. 28 — Lac La Biche	46	26,865.29
41D	Saskatchewan River — Jct. Hwy. 28	8	10,955.05
46B	Lac La Biche — Spruce Valley	33	42,027.24
28B	Ashmont — Jct. Hwy. 28 — Rife	29	22,530.59
50.04	North of Wandering River — North	19	514.93
16B	Edmonton — Jasper Park Boundary	194	328,624.32
16B1	Hwy. 16 thru Jasper Place	2	3,273.90
16B2	Entwistle — Styal	8	5,986.48
29A	Hwy. 16 — Edmonton Beach	4	2,035.89
30A	Hwy. 16 — Kapasiwin Beach	3	1,451.98
31A	Hwy. 16 — Seba Beach	2	2,876.31
32A	Jct. Hwy. 16 — McLeod River	11	8,354.95
33A	Jct. Hwy. 43 — Alberta Beach	6	2,401.49
39A	Leduc — Norbuck	53	76,709.18
43A	Carvel Corner — Fox Creek	132	143,494.57
47	Bickerdike — Leyland	59	50,876.53
47A	Coalspur — Foothills	12	1,649.92
57A	Entwistle — Alsike	51	94,367.57
60A	Hwy. 16 — Devon	13	7,659.29
2E	Edmonton — Joussard	227	505,503.07
15A	Edmonton — Ft. Saskatchewan	10	14,405.57
18A	Clyde — Swan Hills	96	139,792.85
28A	Edmonton — Spedden	102	116,323.58
37A	Namoo — Gibbons	19	17,330.66
44A	Westlock — Smith	75	101,210.61
46A	Spruce Valley — Jct. Hwy. 28	63	57,997.23
2G	Dunvegan — Pouce Coupe	109	116,255.16
34A	Little Smoky River — Jct. Hwy. 2	95	80,294.20
34A1	Triangle — Jct. Hwy. 34	29	37,694.71
43B	Valleyview — Fox Creek	54	69,047.50
49B	Watino — B.C. Bdry.	98	153,340.87
59A	Sexsmith — Valhalla Centre	28	10,819.81
2F	Joussard — Dunvegan	173	254,100.06
2F1	Donnelly — Triangle	31	50,227.71
2F2	Grimshaw — Jct. Hwy. 2	7	6,066.32
35A	Grimshaw — North of Prov. Bdry.	294	292,706.88
49A	Donnelly — Watino	21	13,544.44
58A	High Level — 4 miles North of Rocky Lane	34	3,971.06
Sub Totals		6,239	\$5,447,376.55

ACCESS ROADS:

Hwy. No.		Location	Miles	Amount
43.72	Jct.	Hwy. 1 — Tilley	2.65	\$ 7,392.72
43.97	"	" 36 — Rainier	3.93	1,094.74
43.106	"	" 36 — Duchess	1.50	1,686.84
43.109	"	" 1 — Brooks	1.28	207.17
43.110	"	" 36 — Scandia	1.20	399.94
43.47	"	" 2 — Carstairs	3.03	124.23
43.52	"	" 1 — Gleichen	1.28	1,808.78
43.53	"	" 1 — Cluny	1.52	674.59
43.64	"	" 23 — Vulcan .....	.11	1,138.74
43.75	"	" 1A— Spy Hill Gaol	2.58	1,807.54
43.102	"	" 21A— Acme .....	.25	100.60
43.118	"	" 23 — Blackie	2.03	1,075.17
43.122	"	" 9 — Craigmyle	1.39	333.08
43.48	"	" 14 — Edgerton	6.03	10,869.96
43.51	"	" 13 — Hardisty .....	.53	46.05
43.56	"	" 45 — Dewberry .....	.96	755.90
43.57	"	" 45 — Clandonald	1.77	616.21
43.58	"	" 45 — Hazeldine	1.54	439.18
43.59	"	" 16 — Islay	3.43	152.58
43.60	"	" 13 — Sedgewick .....	.43	21.38
43.63	"	" 41 — Rusylvia	1.00	64.95
43.66	"	" 13 — Provost .....	.37	298.06
43.86	"	" 13 — Hughenden .....	.33	1.93
43.87	"	" 13 — Metiskow	1.84	1,413.45
43.91	"	" 21 — Ferintosh .....	.98	5.00
43.108	"	" 13 — Cadogan	6.55	2,877.19
43.46	"	" 2 — Didsbury	4.24	554.75
43.50	"	" 11 — Eckville	2.79	1,494.96
43.54	"	" 21 — Three Hills	1.03	57.62
43.55	"	" 56 — Big Valley .....	.96	27.72
43.89	"	" 21 — Elnora	2.03	29.40
43.90	"	" 21 — Lousana	2.27	107.34
43.111	"	" 12 — Clive .....	.50	7.96
43.113	"	" 56 — Morrin	2.46	3,013.56
43.130	"	" 11 — Leslieville	4.00	461.18
43.96	"	" 28 — Bonnyville Beach	2.17	228.11
43.67	"	" 43 — Sangudo .....	.28	2.70
43.84	"	" 43 — Onoway	1.03	65.20
43.85	"	" 43 — Mayerthorpe .....	.46	11.61
43.115	"	" 16 — Evansburg .....	.60	10.00
43.132	"	" 39 — Warburg .....	.62	36.88
43.62	"	" 28 — Redwater	1.07	1,687.50
43.73	"	" 44 — Pibroch .....	.88	451.88
43.78	"	" 2 — Legal	1.52	114.22
43.80	"	" 44 — Dapp	3.80	926.21
43.81	"	" 44 — Jarvie	1.00	255.90
43.82	"	" 44 — Flatbush	2.01	527.14
43.83	"	" 44 — Fawcett .....	.31	264.29
43.98	"	" 18 — Barrhead	2.16	610.28
43.100	"	" 2 — Colinton	3.31	1,208.40
43.103	"	" 2 — Clyde .....	.52	57.28
43.104	"	" 28 — Warspite .....	.52	251.32
43.107	"	" 18 — Ft. Assiniboine .....	.50	462.55
43.117	"	" 46 — Newbrook .....	.49	7.00
43.125	"	" 2 — Kinuso .....	.91	207.55
43.126	"	" 2 — Rochester	2.30	611.03
43.92	"	" 49 — Eaglesham	4.02	4,569.64
43.93	"	" 2 — Woking	2.80	3,554.73
43.101	"	" 2 — Wembley	1.02	89.74
43.105	"	" 2 — Saskatoon Mtn.	2.02	55.17
43.112	"	" 49 — Tangent	5.16	1,971.59
43.119	"	" 49 — Falher .....	.76	190.00
43.127	"	" 49 — Girouxville	2.01	65.96
Total Miles			6,352.04	\$5,507,030.90

GRANTS:

Grants	Location	Amount
40:00 E23	City of Medicine Hat	4,085.00
40:00 E28	" " Red Deer	1,965.00
40:00 E37	" " Camrose	1,015.00
40:00 E42	" " Drumheller	450.00
40:00 E43	" " Wetaskiwin	710.00
40:00 E47	" " Lethbridge	4,875.00
40:00 E71	" " Edmonton	20,810.00
40:00 E72	" " Calgary	22,640.00
40:00 E90	" " Grande Prairie	1,340.00
40:00 E149	" " Lloydminster	295.00
	General	8,978.55
	Campsites	241,248.40
	Crusher Camp	2,311.35
	Micro Wave Sites	1,501.11
	Equipment	6,253.13
	Appropriation 1512	<u>\$5,825,508.44</u>

*Maintained by the Province of Saskatchewan — 50% of cost borne by the Province of Alberta.

Appropriation 1510

Roads Branch Maintenance Administration \$ 413,503.79

****Appropriation 1540**

Highway Safety Control \$ 76,285.71

Appropriation 1588

Wayside Campsites \$ 6,011.79

Appropriation 1555

Winter Works Incentive Programme \$1,433,127.14

**Includes Salaries

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

EXPENDITURE ON CONSTRUCTION AND MAINTENANCE
OF DISTRICT HIGHWAYS AND LOCAL ROADS

For the Year Ended March 31, 1964

GRANTS TO IMPROVEMENT DISTRICTS

I.D. Number		Total	I.D. Number		Total
D1	General	\$ 298.21	"	143	4,184.58
	Equipment	66.00	"	145	917.04
D2	General	113.95	"	146	118,446.29
D4	General	896.28	"	147	88,858.41
	Equipment	280.20	"	946	4,279.39
D6	General	20.04			
	Equipment	231.73			
D7	General	3,972.06	Indian Reserves		
	Equipment	2,485.49	D2 - I.R.	\$ 6,836.24	
D8	General	1,099.36	D4 - "	9,311.54	
	Equipment	467.92	D6 - "	7,106.29	
D9	General	494.96	D7 - "	4,693.14	
	Equipment	414.53	D8 - "	3,296.18	
D11	General	621.51	D9 - "	17,157.51	
	Equipment	563.17	D11 - "	2,847.97	
D12	General	1,198.79	D12 - "	8,509.73	59,758.60
	Equipment	950.08			
I.D.	8	1,137.11	Appropriation 1513		
"	10	29,536.51			\$3,843,742.66
"	11	218,401.28			
"	22	38,037.30			
"	27	107,239.83	Special Areas		
"	42	88,107.17			
"	46	4,120.66	Appropriation 1514		
"	50	7,764.20			\$ 250,000.00
"	58	60,748.89			
"	65	266,382.12			
"	68	37,494.44			
"	69	297.50			
"	77	15,441.15			
"	78	280,653.84			
"	79	225.61			
"	85	17,980.26			
"	95	148,452.07			
"	96	28,925.03			
"	101	117,351.68			
"	102	319,208.11			
"	107	117,848.29			
"	108	67,638.81			
"	109	127,948.34			
"	110	345.07			
"	111	19,766.36			
"	121	220.25			
"	122	63,339.01			
"	123	5,441.11			
"	124	66,859.68			
"	125	113,682.95			
"	126	112,463.55			
"	128	44,472.83			
"	129	31,855.00			
"	131	107,565.56			
"	132	205,151.67			
"	134	304,552.81			
"	138	179,529.14			
"	139	196,938.88			

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

EXPENDITURE ON CONSTRUCTION AND MAINTENANCE
OF DISTRICT HIGHWAYS AND LOCAL ROADS

For the Year ended March 31, 1964

GRANTS TO MUNICIPAL DISTRICTS AND COUNTIES

M. D.	Total	M.D.	Total
*General	\$ 3,693.73	County 1	\$ 127,485.97
M. D. 6	74,957.50	" 2	140,366.82
" 9	62,923.07	" 3	90,424.78
" 14	108,573.22	" 4	106,359.71
" 25	101,239.14	" 5	98,182.43
" 26	129,505.04	" 6	103,054.05
" 31	93,027.46	" 7	55,616.36
" 34	20,602.14	" 8	130,128.91
" 44	134,408.71	" 9	95,107.90
" 47	63,446.32	" 10	85,080.11
" 48	97,855.41	" 11	55,125.56
" 52	88,195.57	" 12	94,824.42
" 61	99,028.79	" 13	66,743.92
" 62	106,703.53	" 14	86,598.81
" 71	125,120.05	" 15	85,663.61
" 72	85,157.96	" 16	115,811.85
" 75	111,522.56	" 17	134,875.67
" 82	88,089.08	" 18	80,466.02
" 84	69,723.26	" 19	85,590.87
" 87	58,182.10	" 20	70,678.62
" 92	78,853.75	" 21	91,501.99
" 93	78,097.54	" 22	115,761.40
" 130	61,653.96	" 23	116,487.32
" 133	22,928.63		
" 135	24,758.04		
" 136	32,146.22		
		Appropriation 1515	<u>\$4,252,329.88</u>

*Expenditure shown as General is incurred by engineering parties.

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

EXPENDITURE ON CONSTRUCTION AND MAINTENANCE
OF DISTRICT HIGHWAYS AND LOCAL ROADS

For the Year Ended March 31, 1964

SPECIAL CONTINGENCIES

I.D., M.D., County		Total	I.D., M.D., County		Total
M.D.	6	\$139,818.62	County	1	\$ 57,604.74
"	9	48,906.41	"	2	32,825.68
I.D.	11	24,986.79	"	3	34,947.91
M.D.	14	34,272.61	"	4	35,163.78
"	25	40,551.93	"	5	34,974.68
"	26	49,604.78	"	6	96,690.60
"	31	55,578.71	"	7	46,666.96
"	34	20,281.44	"	8	49,931.59
"	44	111,948.29	"	9	34,500.46
"	47	35,027.19	"	10	35,519.46
"	48	51,556.24	"	11	35,412.24
"	52	36,703.23	"	12	80,756.77
"	61	31,241.93	"	13	187,827.21
"	62	38,325.80	"	14	31,473.28
I.D.	68	19,683.70	"	15	33,982.45
M.D.	71	41,661.80	"	16	56,305.41
"	72	45,740.05	"	17	44,230.65
"	75	35,554.82	"	18	29,543.33
"	82	55,414.32	"	19	107,138.61
"	84	39,529.14	"	21	40,684.41
I.D.	85	20,182.20	"	22	50,059.11
M.D.	87	93,779.05	"	23	50,887.94
"	92	40,000.00	Special Areas 2 - D1.		38,677.53
"	93	71,102.82			
I.D.	101	19,395.25	Appropriation 1516		\$2,674,658.16
"	102	35,001.11			
"	126	1,329.17			
M.D.	130	59,289.45			
I.D.	132	7,820.14			
M.D.	133	23,995.23			
"	135	28,454.77			
"	136	32,441.96			
I.D.	139	39,674.41			

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

EXPENDITURE ON CONSTRUCTION AND MAINTENANCE
OF DISTRICT HIGHWAYS AND LOCAL ROADS

For the Year Ended March 31, 1964

GRANTS FOR NATURAL RESOURCES ROADS

County I.D. or M.D.		Total	County I.D. or M.D.		Total
M.D.	9	\$10,208.32	County	3	\$ 10,000.00
"	26	10,128.85	"	4	9,107.05
I.D.	27	10,077.75	"	6	15,000.00
M.D.	44	22,500.00	"	7	10,000.00
"	47	10,000.00	"	9	10,000.00
"	48	20,000.00	"	10	15,000.00
"	61	9,425.20	"	11	10,000.00
"	62	10,000.00	"	12	40,000.00
"	71	8,979.80	"	13	10,000.00
"	75	10,200.52	"	14	20,000.00
I.D.	78	13,646.44	"	15	10,003.32
M.D.	84	10,738.95	"	17	27,682.34
"	92	10,000.00	"	22	10,000.00
"	93	20,190.89	"	23	10,000.00
I.D.	95	29,748.90	Appropriation 1518		\$487,566.57
"	109	24,886.18			
"	111	29,826.23			
"	139	20,215.83			

Summary

Income Account:

Appropriation 1513 Grants to Improvement Districts	\$ 3,843,742.66
" 1514 Grants to Special Areas	250,000.00
" 1515 Grants to Municipal Districts	4,252,329.88
" 1516 Special Contingencies	2,674,658.16
" 1518 Grants for Natural Resources Roads	487,566.57
	<u>\$11,508,297.27</u>

Salaries are included in appropriation 1510.

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

WAYSIDE CAMPSITES

Expenditure for the year ended March 31, 1964

District	File	Location		Amount	Total
2	3198-9	Island Lake—S.W. 7-8-5-5	Hwy. 3	\$	\$ 500.00
6	" -210	Red Deer River—N.W. 21-35-21-4	" 56		25.00
7	" -81	Minnie Lake—N.W. 14-61-8-4	" 28B	80.00	
"	" -221	Missawawi Lake—S.W. 13-66-15-4	" 46	50.00	130.00
9	" -43	Bonnie Lake—L.S. 9-33-59-13-4	" 28		10.00
12	" -262	Peavine Creek—W½ 20-76-22-5	" 2		5,346.79
Appropriation 1588					<u>\$6,011.79</u>

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS
ROADS BRANCH

WINTER WORKS INCENTIVE PROGRAMME

Expenditure for the year ended March 31, 1964

I.D., M.D. County		Amount	I.D., M.D. .. County		Amount
M. D.	6	\$ 12,640.24	I.D.	108	\$ 24,668.87
"	9	23,659.71	"	109	67,950.81
I.D.	11	886.60	"	111	3,209.11
"	22	18.75	"	121	120,594.24
"	27	43,747.72	"	124	26,498.20
"	42	7,687.01	"	125	25,141.16
"	58	9,734.66	"	126	52,294.96
M. D.	61	3,922.97	"	128	4,892.99
I.D.	65	63,225.28	"	129	15,095.71
"	68	14,382.58	M. D.	130	898.86
"	77	11,683.60	I.D.	131	52,320.35
"	78	41,049.67	"	132	35,208.05
M. D.	84	1,060.26	"	134	100,612.36
I.D.	85	17,575.60	"	138	38,181.76
M. D.	93	1,218.88	"	139	59,048.70
"	95	19,786.39	"	143	229,155.02
"	96	9,317.63	"	145	7,875.50
I.D.	101	48,122.82	"	146	3,213.33
"	102	116,452.28	"	147	33,208.20
"	107	26,970.79	"	946	1,645.89
			County 1		5,749.99
			" 9		26,603.30
			" 11		3,587.50
			" 12		22,328.84
			Appropriation 1555		<u>\$1,433,127.14</u>

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

BRIDGES BRANCH

WINTER WORKS INCENTIVE PROGRAMME — BRIDGE
CONSTRUCTION

Expenditure for the Year Ended March 31, 1964

I.D., M.D. County		Amount	I.D., M.D. County		Amount
M.D.	9	\$ 1,217.56	County	3	\$ 2,395.49
I.D.	11	17,093.51	"	4	18,753.20
M.D.	26	23,043.72	"	5	3,016.35
"	31	11,460.39	"	6	12,179.69
"	44	17,422.40	"	7	16,589.56
"	47	3,325.47	"	8	7,260.97
"	62	1,955.19	"	9	1,002.00
"	75	4,955.66	"	10	10,999.98
I.D.	77	6,921.12	"	11	3,780.68
M.D.	82	561.71	"	12	8,002.19
"	92	14,185.61	"	13	7,849.99
I.D.	102	11,181.88	"	15	114.64
"	109	7,467.05	"	16	17,202.97
"	124	17,020.88	"	17	3,525.73
"	125	2,615.05	"	19	5,423.24
M.D.	130	3,733.25	"	21	5,132.68
"	136	9,228.53	"	22	7,436.62
I.D.	138	27.20	"	23	5,036.54
"	139	3,906.85	"	24	1,138.03
"	146	2,946.50			
"	147	38,319.16	Appropriation	1556	\$339,607.89
"	946	4,178.65			

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

WINTER WORKS INCENTIVE PROGRAMME
BRIDGE CONSTRUCTION

Expenditure for the year ended March 31, 1964

County I.D., M.D.	Amount	County I.D., M.D.	Amount
M.D. 6	\$ 23,281.12	I.D. 121	\$ 46,591.59
I.D. 10	51,431.80	M.D. 130	15,806.25
M.D. 26	11,019.07	I.D. 946	144,249.03
" 31	36,603.51	County 2	9,976.66
" 47	2,030.54	" 5	31,278.67
" 63	124,712.13	" 15	112,759.74
" 87	64,275.52	" 17	94,596.63
" 92	10,144.95	" 20	46,261.46
" 93	11,380.62		
I.D. 109	20,975.99	Appropriation 1595	<u>\$857,375.28</u>

SUMMARY OF WINTER WORKS INCENTIVE PROGRAMME

Appropriation 1555	\$1,433,127.14
" 1556	339,607.89
" 1595	857,375.28
	<u>\$2,630,110.31</u>

APPROPRIATION 1533

Job T 461 W \$3,307.74 Labour Content—Winter Works Incentive Programme.

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

EXPENDITURE ON INSTALLATION, REPAIRS AND OPERATION OF FERRIES

For the Year ended March 31, 1964

File Number	Location	River	Supervision	Installation	Repairs	Operation	Total
				\$	\$	\$	\$
2500	General—Head Office		Supervision				
	Equipment						
2542	Bow Island	South Saskatchewan		15.55	5,114.63	19.05	19.05
2549A	Stevieville	Red Deer			5,718.57	124.88	124.88
2563B	Finnegan	Red Deer			5,593.48	5,718.57	10,848.75
2589B	North of Jenner	Red Deer			3,754.06	5,806.16	9,560.22
2773A	South of Rolling Hills	Red Deer			3,435.88	3,754.06	7,189.94
2508B	Dorothy	Bow			11,411.47	6,561.72	17,973.19
2760B	South of Crowfoot	Red Deer			5,135.01	2,653.69	7,788.70
2581A	Vinca Crossing	Bow			4,603.08	8,647.34	13,250.42
*2518A	North of Lloydminster	North Saskatchewan			8,647.34	9,426.83	18,074.17
2521A	To'man Crossing	Red Deer			7,594.00	7,594.00	15,188.00
2560B	West of Munson	Red Deer		61.75	5,402.43	5,402.43	10,864.18
2526B	Hopkins	North Saskatchewan			3,208.97	2,769.08	5,978.05
2543A	North of Myrnam	North Saskatchewan		25.03	340.96	5,523.59	5,869.58
2565B	Lindbergh	North Saskatchewan		134.06	131.57	3,192.94	3,458.57
2799A	Heinsburg	North Saskatchewan			646.09	8,593.75	9,239.84
2532B	Lac Ste. Anne	Narrows—Lac Ste. Anne		34.18	219.31	1,026.82	1,280.31
2538B	South of Holborn	North Saskatchewan		313.47	2,917.99	4,696.47	7,924.93
2544A	Genesee	North Saskatchewan			5,620.22	6,474.74	12,094.96
2561A	Berrymoor	North Saskatchewan			1,973.31	6,345.06	8,318.37
2777A	Blus Ridge	North Saskatchewan		458.71	4,190.73	5,436.33	10,085.77
2796A	Rosevear	McLeod		46.29	84.02	5,245.59	5,375.90
2513A	Pakan	North Saskatchewan		14.47	111.06	6,269.88	6,395.41
2522B	Letts Crossing	Pembina			1,234.37	3,946.65	5,181.02
2535A	Eldorena	North Saskatchewan			1,693.69	31,156.75	32,850.44
2750B	Klondyke Crossing	Athabasca			724.07	3,703.06	4,427.13
2775A	Wakatenau	North Saskatchewan			85.52	6,334.36	6,419.88
2793A	Warspite	North Saskatchewan			5,449.96	5,720.75	11,170.71
2755A	South of Wembley	Wapiti			247.32	20,928.42	21,175.74
2741A	La Crete	Peace		58.05	6,743.95	8,835.58	15,637.58
2748A	South of Falher	Little Smoky			3,991.22	19,383.46	23,374.68
2797A	Fort Vermilion	Peace					
				\$1,161.56	\$78,807.17	\$218,444.55	\$298,413.28
					Income	Account	Appropriation
						1511	\$298,413.28

*Maintained by the Province of Saskatchewan
50% of the cost being borne by the Province of Alberta

DEPARTMENT OF HIGHWAYS

CONSTRUCTION BRANCH

(R. H. Cronkhite, Chief Construction Engineer)

At the end of the 1963 fiscal year, the mileages of Provincial Main and Secondary Highways and Access Roads were as follows:

MAIN AND SECONDARY HIGHWAYS 6,400.26 Miles

SUMMARY**Pavement Surfaces:**

Concrete Surface, two lanes	3.29 Miles	
Concrete Surface, four lanes undivided	0.90 "	
Asphalt Surface, two lanes	3,805.95 "	
Asphalt Surface, four lanes undivided	73.44 "	
Asphalt Surface, four lanes divided	163.51 "	
Combined Asphalt and Concrete Surface:		
Four lanes divided	2.47 "	
Four lanes undivided	0.29 "	4,049.85 Miles

Other Surfaces:

Gravel Surface, two lanes	2,266.04 Miles	
Graded, four lanes divided	31.81 "	
Graded, two lanes	23.67 "	
Unimproved	28.89 "	2,350.41 "
Total		<u>6,400.26 Miles</u>

ACCESS ROADS 118.75 Miles

SUMMARY

Asphalt Surface, two lanes	38.00 Miles
Gravel Surface, two lanes	80.75 "
	<u>118.75 Miles</u>

During the 1963 - 64 construction season, 373.44 miles of subgrade construction were completed, 43.22 miles of subgrade were widened, 5.86 miles of grade were reconditioned and 388.33 miles of highways were gravel surfaced.

In addition, 238.93 miles of stabilized gravel base course and 101.26 miles of cement stabilized base course were placed, 292.23 miles asphaltic plant mix surface course, 234.44 miles of asphaltic seal coat surfacing and 18.08 miles of double asphaltic surface treatment were completed.

On the one hundred and sixty-three projects under construction, 1,533 shifts, totalling 15,330 hours were lost due to wet weather, however, an exceptionally fine fall made it possible to complete most of the construction with only four percent of the subgrade construction and two percent of the base course construction remaining uncompleted at the end of the 1963 season.

Construction continued on the limited access four-lane divided arterial highway from north of Penhold to south of Leduc, with the completion this season of two grading contracts awarded in the fall of 1962 and the awarding and completion this season of two contracts covering subgrade construction from north of Battle River to north of Highway 53, a distance of 2.56 miles, and south of Highway 19 to west of Millet, a distance of 9.48 miles. In addition, two asphaltic plant mix surfacing contracts were awarded this season, covering a total of 24.97 miles from north of Penhold to north of Lacombe, with the work being completed except for a small amount of curbing and finishing. In the late fall

of the year the final two grading contracts for this highway were awarded covering subgrade construction from north of Highway 53 to west of Hobbema, a distance of 9.06 miles, and from west of Hobbema to south of Highway 19, a distance of 8.56 miles. In early January of 1964, one contract was awarded covering the laying of 8.77 miles of stabilized gravel base course from north of Lacombe to south of Battle River.

An exploratory section of soil-asphalt base course was constructed on Highway 36 from east of Lavoy to south of Two Hills, a distance of 13 miles. Emulsified asphalt was mixed with soil material and the mixture was placed on the prepared subgrade to a compacted depth of six inches, upon this was laid a two-inch lift of asphalt stabilized gravel base course completing the base course operation. A two-inch layer of asphaltic plant mix surface course will be placed on this section in the ensuing year.

The marked increase in traffic on Trans-Canada Highway from Calgary to the Banff Park boundary necessitated the decision to undertake the conversion of the existing roadway to accommodate four lanes of traffic. Grading and base course construction of the Parclo Interchange at the Happy Valley road and the subgrade and base course construction of the two additional traffic lanes of Trans-Canada Highway from west of Bowness to west of Happy Valley was commenced this season by contractors' forces and completed. In addition to this, day-labour forces constructed subgrade for two additional traffic lanes from the west boundary of the Bowness Interchange to west of Bowness and completed the work commenced last season of widening the subgrade to accommodate two additional lanes of traffic from the Bow River to the west boundary of the Bowness Interchange and the grading of the cloverleaf interchange at Bowness. A contract covering the application of stabilized gravel base course from the Bow River to west boundary of Bowness Interchange and on the Bowness Interchange was also completed. This work was the first four-lane construction on Trans-Canada Highway in Alberta.

Under the Federal-Provincial Roads to Resources Agreement two new contracts for the remainder of subgrade construction required on Highway 35 were called covering work from north of Dixonville to north of Hotchkiss, a distance of 37.33 miles, of which 32.98 miles were completed. One new gravelling contract was awarded and completed, covering an additional lift of traffic gravel from north of Metis Settlement to North Provincial Boundary, a total of 99.53 miles and also provided crushed gravel to stockpile to complete further application. A total of 76.37 miles of subgrade construction and 164.75 miles of gravelling were completed this year under the Road to Resources programme which includes work left uncompleted in the 1962 season. These mileages are included in the totals shown at the outset of this report for subgrade construction and gravel surfacing.

Construction of the major development road from Highway 46 to Ft. McMurray which commenced in the 1962 fiscal year, for the clearing by day-labour forces of the right-of-way from north of Wandering River to east of May Tower, continued in the 1963 fiscal year with the awarding of a grading and gravelling contract from north of Wandering River to east of May Tower, a distance of 22.16 miles, of which 18.84 miles were completed. During the 1963 fiscal year two contracts for the clearing of

the right-of-way from east of May Tower to Fort McMurray were awarded and completed. This clearing was done under the Winter Works Incentive Programme.

Winter clearing was done by day-labour forces on Highway 11 from north of Edwards Bridge to Banff Park boundary and on Highway 19 from Westeros to Junction Highway 12.

The programme to fertilize, seed and mulch medians, sideslopes, backslopes, etc., of new construction continued with approximately 4,200 acres being seeded by Department forces.

During the winter months stockpiling of gravel by day-labour forces was carried out as follows, eight projects of stockpiling pit-run gravel and eight projects of crushing and stockpiling $\frac{1}{2}$ inch aggregate.

The system of truck registration and rotation implemented first in 1959 continued with 1,341 trucks being registered this year, a decrease in the number of registrations from last year of 265 trucks. The amount of earnings a truck owner was permitted to make was set at \$1,000.00, but as the season and programme advanced, the quota was increased to approximately \$1,300.00.

During the 1963 - 64 fiscal year preliminary engineering surveys were completed on twenty-nine projects involving 394.94 miles of highway. The completion of the preliminary survey for the development road to Fort McMurray accounted for 102.58 miles of this total. Design was completed on 331.24 miles of highway which included seven interchanges and 28.27 miles of four-lane divided freeway highway.

During the 1963 - 64 fiscal year 710 classification and turning-movement traffic counts were taken at various locations throughout the Province. There were 14 new locations where permanent traffic counting machines were installed. A total of 105 speed studies were taken at various locations in the highway system.

Four origin and destination surveys were conducted at the following locations: Taber, Calgary, Big Valley and Berwyn.

In our accident analysis programme 18 accident-prone locations were reviewed.

Approximately 400 development applications and 300 subdivision applications were processed.

The programme of signing and guard rail installation was continued. During the year, 106,125 feet of guard rail and 21,411 guide posts were installed. Oversize signs were erected at the following intersections: Highway No. 43 and Whitecourt approach road, Highway No. 1 at Happy Valley Interchange, Highway No. 1 at Bowness Interchange, Junction of Highways 2 and 27 east of Olds.

During the 1963 - 64 construction season 44,000 tests were conducted in the control of construction and materials on highway construction projects. The majority of these tests were composed of compaction tests on pavement and earth work as well as base course and various tests employed to control aggregates, moisture content, investigational testing, etc.

The use of the Benkelman Beam for deflection measurements of our pavements also continued this year and an inventory of all the weaker pavements which will require additional thickness for strength was compiled. This information will be used for design of thickness to be constructed. Approximately 53,000 deflection tests were conducted during the 1963 - 64 season. The Department also co-operated in research activities on a Provincial and Dominion scale in which research into the behaviour of pavements was conducted. The Department employed four to five crews in this phase of the work which included the determination of road-ban periods in the spring of the year.

A comprehensive programme for the investigation and testing of bridge foundations was initiated in co-operation with the Bridge Branch.

Pavement sufficiency studies which included heavy truck axle surveys were performed in conjunction with the continuing pavement evaluation work. A refinement in the control of our asphaltic paving operations was introduced this season with an increased emphasis being placed on mix quality and temperature of operation.

The Highways Testing Laboratory conducted approximately 60,000 tests in evaluation of materials and design of mixes, etc. Paint quality control and testing was continued this season. Other investigations within the laboratory included the use of lime in soil stabilization as well as emulsified asphalt. One project employing emulsified asphalt was constructed this season and evaluation of this project has continued all season.

Gravel research was carried out with four crews locating and testing prospective sand and gravel deposits. Approximately 300 pits were evaluated.

Eighteen applications to the Board of Transport Commissioners were made for installation of protection at highway-railway grade crossings in 1963, of which six were approved and twelve are pending. Ten installations of protection were made by the Railway Companies, of which, nine were of previous approval and one of current approval.

The street paving and sidewalk programme for towns, villages and hamlets continued with work undertaken in fifty areas. Thirty-one concrete sidewalk, curb and gutter projects, three paving projects, twelve gravel surfacing projects and four projects embracing two or more of these types of work were underway, including work carried over from last season in thirty-eight areas. Twenty-five of these projects were carried out by contract, twenty-one by day labour and four by a combination of these methods. Construction completed in 1963 totalled 11.04 miles of concrete sidewalk, 3.97 miles of concrete curb and gutter, 34,566 square yards of street paving and 98,942 square yards of gravel surfacing.

One engineer from India was attached to the branch for approximately two months, under the Colombo Plan, for training and instruction.

The following is a statement of the work performed during the year ending March 31, 1964.

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH
HIGHWAY CONSTRUCTION 1963/64
GRADING — MAIN HIGHWAYS

Job No.	Highway	Location	Miles	Type of Work	Width in Feet	Work Done By
						D.O.H. Contract
T755V	A1-C-1/1	Bow River—W. Bdy. of Bowness Interchange	0.70	Subgrade	Variable	"
T753N	"	W. Bdy. of Bowness Interchange—W. of Bowness & Interchange	1.80	"	51	"
T753G	2-B-1	S. of Clareholm—Granum	2.30	"	49	Contract
T742M	2-B-3	(S.W. Bypass) T. C. H.—Old Banff Coach Road	0.79	Widening	Variable	"
T754N	2-C-3/1	N. of Penhold—S. of Red Deer	0.97	Subgrade	29 - 29	"
T751N	2-D-1/4	N. of Lacombe—N. of Battle River	2.19	Subgrade	(4-lane Div.)	"
"	"	& Interchanges	0.81	Construction	(4-lane Div.)	"
T755A	"	N. of Battle River—N. of Hwy. 53	7.56	Construction	(Multi-lane)	"
T754A	"	& Interchange	2.51	Widening	(Multi-lane)	"
T752S	2-D-3/1	S. of Hwy. 19—W. of Millet	3.85	Construction	(4-lane Div.)	"
T748Y	2-E-3	W. of Millet—S. of Leduc	2.56	"	51 - 51	"
T755U	"	& Interchanges	2.38	"	Variable	"
T755E	2-F-4	W. of Rochester—N. of Perryvale	9.48	"	51 - 51	"
T756A	"	N. of Perryvale—W. of Colinton	3.19	"	Variable	"
T756M	"	E. of Wagner—W. of Canyon Creek	12.34	"	51 - 51	"
T752Y	"	W. of Assinieu River—E. of Kinuso	4.24	"	Variable	"
"	"	E. of Swan River—W. of Strawberry Creek	3.85	"	42	"
"	"	E. of High Prairie—W. of High Prairie	11.92	"	"	"
"	"	Coaldale—W. of Barnwell	1.40	"	"	"
"	"	Milk River—Courts	0.75	"	"	"
T749L	11-C-1	Tepee Creek—S. of Allstones Creek	1.34	Subgrade	Variable	"
T751K	12-C-1	S. of Allstones Creek—W. of Windy Point	3.20	Construction	50	"
T755D	12-D-1	W. of Lacombe—S. of Clive	10.55	"	52	"
T743U	16-D-2	E. of Sundance Creek—Galloway	3.16	Widening	Variable	"
"	"	"	0.94	"	50	"
T756J	28-B-3	St. Paul—E. of St. Edouard	11.92	Construction	Variable	"
T743T	28A-B-3	S. of Mallait—S. of Glendon	3.80	"	50	"
T753B	36-A-3	E. of Glendon—E. of Rite	4.03	"	36	"
T750J	"	E. of Hanna—N. of Garden Plain	2.04	"	42	"
T750H	36-C-2	E. of Hanna—Jct. Hwy. 9	18.06	"	"	"
T754H	36-B-2	W. of Sheerness—E. of Hanna	2.12	"	"	"
T753X	43-A-2	Thru Town of Two Hills	3.97	"	"	"
"	"	Whitcourt Channelization	0.70	"	42	D.O.H. Contract
TOTAL			0.22	"	Variable	
			173.45 Miles			
Subgrade Construction			130.23 Miles	By Contract		
Subgrade Widening			43.22 "	By D.O.H.		
TOTAL			173.45 Miles	TOTAL		
				168.06 Miles		
				5.39 "		
				173.45 Miles		

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH
HIGHWAY CONSTRUCTION 1963/64
GRADING — SECONDARY HIGHWAYS

Job No.	Highway	Location	Miles	Type of Work	Width in Feet	Work Done By Contract
T755S	7-A	Curve Revisions E. of Black Diamond	0.74	Subgrade	32	"
T755Z	17-A	Dillberry Lake Prov Park—Jct. Hwy. 14 (cost shared by Prov. of Saskatchewan)	19.74	"	32	"
T754A	19-A-1 (2-D-3/1)	Thru Interchange (W. of Wetaskiwin)	0.69	"	Variable	"
T753D	21-C-1	W. of Rockyford—Jct. Hwy. 9	12.27	"	42	"
T753H	27-B-1	E. of Three Hills Creek—Jct. Hwy. 21	6.10	"	"	"
T755Y	32-A	Jct. Hwy. 16—Peers	4.36	"	32	"
	"	"	0.93	Grade Reconditioning	"	"
T932A	A35-A-1	N. of Grimshaw—N. of Dixonville	9.06	Subgrade Construction	42	"
T932R	A35-A-2	N. of Dixonville—North Star	20.56	"	"	"
T932Q	A35-A-3	North Star—N. of Horthkiss	12.42	"	"	"
T754D	41-A-2	N. of Vermilion—Jct. Hwy. 45	4.93	Grade Reconditioning	28	"
T753C	41-C-5	E. of Red Deer Lake—S. of Chappice Lake	14.83	Subgrade Construction	42	"
T742U	42-A	E. of Pine Lake—Jct. Hwy. 21	2.03	"	"	"
T743W	44-A-2	N. of Tieland—N. of Chisholm	1.02	"	"	"
T749J	45-A-1	Deerland—S. of Peno	3.27	"	42 & 36	"
T754B	"	S. of Peno—Andrew	14.17	"	36	"
T754E	45-A-2 & 3	W. of Two Hills—S. of Duvernay	2.73	"	42	D.O.H. Contract
T747Y	46-A	Abee—W. of Alpen	4.97	"	"	"
T753F	"	W. of Alpen—W. of Boyle	11.43	"	"	"
T754K	"	Fifth Meridian—N. of Rimbey	2.46	"	32	"
T753W	"	Jct. Hwy. 2A—W. of Ponoka	3.04	"	Variable	"
T932F	A58-A	High Level—N. of Fort Vermilion	34.33	"	26	"
T754L	59-A	W. of Valhalla Centre—Jct. Hwy. 2	11.25	"	"	"
T743R	60-A	Jct. Hwy. 16—N. of North Sask. River	3.93	"	42	"
T753J	61-A-2	Curve Revision S. of Skiff and Thru Town of Foremost	1.29	"	Variable	"
T755R	62-A	Thru Town of Magrath	1.25	"	"	"
T755Q	50:04	N. of Wandering River—E. of May Tower	18.84	"	32	"
TOTAL			222.64 Miles			
Subgrade Construction			216.78 Miles	By Contract		219.91 Miles
Subgrade Reconditioning			5.86 "	By D.O.H.		2.73 "
TOTAL			222.64 Miles	TOTAL		222.64 Miles

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH
HIGHWAY CONSTRUCTION 1963/64
ACCESS ROADS

Job No.	Highway	Jct. Hwy	Location	Miles	Type of Work	Width in Feet	Work Done By
T552K	43:117	46—	Newbrook	0.49	Subgrade Construction	32 - 28	Contract
T552N	43:119	49—	Falher	0.76	"	"	"
T553G	43:122	"	9—Craigmyle	1.39	"	"	"
T553M	43:126	"	2—Rochester	2.30	"	"	"
T553V	43:130	"	11—Leslieville	4.73	"	"	"
T553X	43:132	"	39—Warburg	0.62	"	"	D.O.H.
TOTAL				10.29 Miles	By Contract		9.67 Miles
Subgrade Construction				10.29 Miles	By D.O.H.		0.62 "
					TOTAL		10.29 Miles

GRADING — MISCELLANEOUS

Job No.	Highway	Location	Miles	Type of Work	Width in Feet	Work Done By
T755V	A1-C-1/1	Paskapoo Access Connection	0.21	Subgrade Construction	30	D.O.H.
"	"	Misc. Access Control W. of Bowness	1.23	"	"	"
T756Q	2-C-3/1	N. of Penhold—S. of Red Deer (W. Service Road)	0.40	"	"	"
"	"	(E. Service Road)	0.87	"	"	"
T756W	2-D-1/4	District Rd.: S.W. of Ponoka—W. of Hwy. 2	1.16	"	"	"
T745J	21-A-1	Channelization Jct. Hwy. 21 & Trochu Access	0.25	"	Variable	"
T745Q	27-B-1	Inter. Impr. Jct. Hwys. 21, 27 & Dist. Rd.	0.28	"	26	"
T755X	41-A-2	District Road Connection to Hwy. 41	0.51	"	"	"
T461T	46:01	S. of Girouxville—N. of Whitemud Cr. School (Paid by Bridge Branch)	7.01	"	32 - 34	Contract
T461W	46:02	E. of Trochu—E. of Red Deer (Paid by Bridge Branch)	4.22	"	32	"
TOTAL				16.14 Miles		
Subgrade Construction				16.14 Miles		
					By Contract	11.23 Miles
					By D.O.H.	4.91 "
					TOTAL	16.14 Miles

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH
HIGHWAY CONSTRUCTION 1963/64

GRADING SUMMARY

	Main Highways	Secondary Highways	Access Roads	Miscellaneous	Total
Subgrade Construction	130.23 Miles	216.78 Miles	10.29 Miles	16.14 Miles	373.44 Miles
Subgrade Widening	43.22 "	—	—	—	43.22 "
Grade Reconditioning	—	5.86 "	—	—	5.86 "
TOTALS	173.45 Miles	222.64 Miles	10.29 Miles	16.14 Miles	422.52 Miles
By Contract	168.06 Miles	219.91 Miles	9.67 Miles	11.23 Miles	408.87 Miles
By D.O.H.	5.39 "	2.73 "	0.62 "	4.91 "	13.65 "
TOTALS	173.45 Miles	222.64 Miles	10.29 Miles	16.14 Miles	422.52 Miles

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH

HIGHWAY CONSTRUCTION 1963/64

FIRST COURSE GRAVEL SURFACING — MAIN HIGHWAYS

JOB NO.	HIGHWAY	LOCATION	MILES	WORK DONE BY
T748Y	2-E-3	W. of Rochester—N. of Perryvale	3.85	Contract
T755U	"	N. of Perryvale—W. of Colinton	8.06	"
T755E	2-F-4	E. of Wagner—W. of Canyon Creek	11.92	"
T755E	"	W. of Assineau River—E. of Kinuso	1.40	"
T756A	"	W. of Swan River—W. of Strawberry Creek	0.75	"
T749L	11-C-1	Tepee Creek—S. of Allstones Creek	9.66	"
T751K	"	S. of Allstones Creek—W. of Windy Point	2.44	D.O.H.
T756J	28-B-3	St. Paul—E. of St. Edouard	3.77	Contract
T743T	28A-B-3	S. of Mallaig—S. of Glendon	6.79	"
T753V	"	S. of Glendon—E. of Rife	7.81	"
T753B	36-A-3	E. of Hanna—N. of Garden Plain	18.06	"
T750J	"	E. of Hanna—Jct. Hwy. 9	2.12	"
T750H	36-C-2	W. of Sheerness—Jct. Hwy. 9	3.97	"
TOTAL			80.60 Miles	
By Contract			78.16 Miles	
By D.O.H.			2.44 "	
TOTAL			80.60 Miles	

FIRST COURSE GRAVEL SURFACING — SECONDARY HIGHWAYS

JOB NO.	HIGHWAY	LOCATION	MILES	WORK DONE BY
T755Z	17-A-2	Dillberry Lake Prov. Park—Jct. Hwy. 14	19.74	Contract
T753D	21-C-1	W. of Rockyford—Jct. Hwy. 9	12.27	"
T753H	27-B-1	E. of Three Hills Creek—Jct. Hwy. 21	6.10	"
T755Y	32-A	Jct. Hwy. 16—Peers	5.29	"
T932A	A35-A-1	N. of Grimshaw—N. of Dixonville	9.06	"
T932R	A35-A-2	N. of Dixonville—North Star	20.56	"
T932Q	A35-A-3	North Star—N. of Hotchkiss	10.60	"
T932T	A35-B-3	N. of Metis Settlement—High Level	20.82	"
T932U	A35-C-1	High Level—Meander River	8.00	"
T932V	A35-C-2	Meander River—Steen River	39.66	"
T932W	A35-C-3	Steen River—N. of Prov. Bdy.	31.05	"
T735C	41-C-5	W. of Schuler—S. of Chappice Lake	19.06	"
T742U	42-A	E. of Pine Lake—Jct. Hwy. 21	2.03	"
T743W	44-A-2	N. of Tieland—N. of Chisholm	1.02	"
T749J	45-A-1	Deerland—S. of Peno	3.27	"
T754B	"	S. of Peno—Andrew	14.17	"
T747Y	46A	Abee—W. of Alpen	9.67	"
T753F	"	W. of Alpen—W. of Boyle	11.43	"
T753W	53B	Jct. Hwy. 2A—W. of Ponoka	3.04	"
T932F	A58-A	High Level—N. of Fort Vermilion	25.00	D.O.H.
T754L	59-A	W. of Valhalla Centre—Jct. Hwy. 2	11.25	Contract
T743R	60-A	Jct. Hwy. 16—N. of North Sask. River	3.93	"
T755Q	50:04	N. of Wandering River—E. of May Tower	4.50	"
TOTAL			291.52 Miles	
By Contract			266.52 Miles	
By D.O.H.			25.00 "	
TOTAL			291.52 Miles	

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH
HIGHWAY CONSTRUCTION 1963/64

FIRST COURSE GRAVEL SURFACING — MISCELLANEOUS

JOB NO.	HIGHWAY	LOCATION	MILES	WORK DONE BY
T755V	A1-C-1/1	Paskapoo Access Connection	0.21	D.O.H.
T755V	"	Misc. Access Control W. of Bowness	1.23	"
T756W	2-D-1/4	District Road: S. W. of Ponoka—W. of Hwy. 2	1.16	"
T745J	21-A-1	Channelization Jct. Hwy. 21 & Trochu Access	0.25	"
T745Q	27-B-1	Intersection Improv. Jct. Hwys. 21, 27 & Dist Rd.	0.28	"
T755X	41-A-2	District Road Conn. to Hwy. 41	0.51	"
T461T	46:01	S. of Girouxville—N. of Whitemud Creek School	7.01	Contract
		(Paid by Bridge Branch)		
TOTAL			10.65 Miles	
By Contract			7.01 Miles	
By D. O. H.			3.64 "	
TOTAL			10.65 Miles	

FIRST COURSE GRAVEL SURFACING — ACCESS ROADS

JOB NO.	HIGHWAY	LOCATION	MILES	WORK DONE BY
T552K	43:117	Jct. Hwy. 46—Newbrook	0.49	Contract
T552N	43:119	" " 49—Falher	0.76	"
T553G	43:122	" " 9—Craigmyle	1.39	"
T553M	43:126	" " 2—Rochester	2.30	"
T553X	43:132	" " 39—Warburg	0.62	D.O.H.
TOTAL			5.56 Miles	
By Contract			4.94 Miles	
By D.O.H.			0.62 "	
TOTAL			5.56 Miles	

GRAVELLING SUMMARY

	Main Hwys.	Secondary Hwys.	Access Roads	Misc.	Totals
First Course Graveling	80.60	291.52	5.56	10.65	388.33 Miles
By Contract	78.16	266.52	4.94	7.01	356.63 Miles
By D.O.H.	2.44	25.00	0.62	3.64	31.70 "
TOTALS	80.60	291.52	5.56	10.65	388.33 Miles

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH

HIGHWAY CONSTRUCTION 1963/64

STABILIZED BASE COURSE — MAIN HIGHWAYS

Job No.	Highway	Location	Miles	Type	Work Done By Contract
T756Y	A1-C-1/1	Bow River—W. Bdy. of Bowness Interchange	0.70	Asphalt Stabilized (Add'l. 2-lanes)	"
T753N	A1-C-1/1 & 1/2	W. of Bowness—W. of Happy Valley Interchange	2.30	"	"
"	"	S. of Claresholm—Granum	0.79	"	"
T753G	2-B-1	S. of Claresholm—Granum	10.08	"	"
T756Z	2-B-3	(W. Conn.) N. of Bowness Int.—Banff Coach Road	2.57	"	"
"	"	Loops and Connections	2.47	"	"
T754N	2-C-3/1	N. of Penhold—S. of Red Deer	0.81	" (Multi-lane)	"
T750M	2-E-2	Clyde Corner—N. of Nestow	10.66	Cement Stab. & Top Lift Asphalt Bound	"
T755M	2-H-2	N. of Dunvegan—Fairview	12.74	Asphalt Stabilized	"
T747U	2-J-2	E. of Woking—N. of Sexsmith	7.63	Cement Stab. & Top Lift Asphalt Bound	"
T747V	2A-G-3	Donnelly—Jct. Hwy 2	1.01	"	"
T752Y	4-A-2	Milk River—Coutts	10.33	Asphalt Stabilized	"
"	"	"	1.74	" (4-lane)	"
T753P	9-C-2	W. of Sibbald—Sask. Bdy.	11.47	Cement Stab. & Top Lift Asphalt Bound	"
T754M	12-A & B-1	W. of Veteran—N. of Loyalist	11.80	"	"
T755D	12-C-1 & D-1	W. of Lacombe—S. of Clive	4.26	"	"
"	"	" " " "	2.00	Asphalt Stabilized (4-lane)	"
T754Z	14-A	E. of Edgerton Jct.—N. of Chauvin	7.81	Cement Stab. & Top Lift Asphalt Bound	"
T749P	16-C-3	Entwistle—W. of Styal	3.99	Asphalt Stabilized	"
T743U	16-D-2	E. of Sundance Creek—Galloway	10.83	"	"
T755N	28-B-2	W. of Spedden—Ashmont	8.91	Cement Stab. & Top Lift Asphalt Bound	"
T750D	28-C-2	W. of Bonnyville—Ardmore	10.74	Asphalt Stabilized	"
T754H	36-B-2	E. of Lavoy—S. of Two Hills	13.00	Soil Asphalt Base Course	D.O.H.
"	"	S. of Two Hills—Jct. Hwy. 45	7.08	Asphalt Stabilized	"
T753L	36-D-2	Vauxhall—S. of Scandia	12.68	"	Contract
T753X	43-A-2	Whitecourt Channelization	0.07	"	"
TOTAL			168.47 Miles		
Asphalt Stabilized			91.92 Miles		
Cement Stabilized			63.55 "		148.39 Miles
Soil Asphalt Base Course			13.00 "		20.08 "
TOTAL			168.47 Miles		168.47 Miles

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH

HIGHWAY CONSTRUCTION 1963/64

STABILIZED BASE COURSE — SECONDARY HIGHWAYS

Job No.	Highway	Location	Miles	Type	Work Done By Contract
T755S	7-A	Curve Revision E. of Black Diamond	0.74	Asphalt Stabilized	"
T755F	21-B-1	Mirror—Bashaw	10.63	"	"
T755H	21-B-2	Bashaw—N. of Ferintosh	14.94	"	D.O.H.
"	"	N. of Ferintosh—Duhamel	8.98	"	"
T755W	22-A	Turner Valley—Black Diamond	2.15	"	Contract
T753S	39-A-2	N. of Thorsby—Warburg	13.06	"	"
T754D	41-A-2	N. of Vermilion—Jct. Hwy. 45	10.17	Cement Stab. & Top Lift Asphalt Bound	"
T753T	42-A	Penhold—W. of Pine Lake	13.20	"	"
T753Y	44-A-1	Westlock—E. of Dapp	13.91	Asphalt Stabilized	"
T754E	45-A-2 & 3	Two Hills—S. of Duvernay	2.73	"	D.O.H.
T747W	49-A-1	Jct. Hwy. 2—Falher	2.76	Cement Stab. & Top Lift Asphalt Bound	Contract
T754K	53-B	Fifth Meridian—N. of Rimbey	10.16	Stab. Gravel (with double surface treat.)	"
T754C	54-A	E. of Medicine River—W. of Spruceview	13.40	Asphalt Stabilized	D.O.H.
T755P	60-A	Jct. Hwy. 16—N. of North Saskatchewan River	11.06	Cement Stab. & Top Lift Asphalt Bound	Contract
T755R	62-A	S. of Magrath—Jct. Hwy. 5	8.46	Stab. Gravel (with asphalt plant mix)	"
TOTAL			136.35 Miles		
Asphalt Stabilized			99.16 Miles		96.30 Miles
Cement Stabilized			37.19 "		40.05 "
TOTAL			136.35 Miles		136.35 Miles

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH

HIGHWAY CONSTRUCTION 1963/64

STABILIZED BASE COURSE — ACCESS ROADS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T553Z	43:50	Jct. Hwy. 11—Eckville	2.79	Asphalt Stabilized	Contract
T552V	43:103	“ “ 2—Clyde	0.52	Cement Stabilized and Top lift Asphalt Bound	“
T552L	43:114	“ “ 54—Dickson	2.00	Asphalt Stabilized	D.O.H.
T553H	43:120	“ “ 2—Granum	0.85	“ “	Contract
T553V	43:130	“ “ 11—Leslieville	4.73	“ “	“
T553W	43:131	“ “ 39—Thorsby	0.32	“ “	“
Total			11.21 Miles		
Asphalt Stabilized			10.69 Miles		
Cement Stabilized			0.52 “		
Total			11.21 Miles		
By Contract			9.21 Miles		
By D.O.H.			2.00 “		
Total			11.21 Miles		

STABILIZED BASE COURSE — MISCELLANEOUS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T153L	093H	Jct. Hwy. 6—E. of Marr Lake	3.75	Asphalt Stabilized	Contract
T153D	130B	“ “ 2—E. of Glenwood	7.61	“ “	“
T153W	107D	Coaldale—N. of Coaldale	3.54	“ “	“
T155H	42:44	Jct. Hwy. 1—Sarcee Indian Reserve	5.65	“ “	“
T161C	166J	N. of Erskine—S. of Buffalo Lake (Paid by Maintenance Branch)	3.50	“ “	D.O.H.
T697A	46:01	Little Smoky River—S. of Girouxville (Paid by Bridge Branch)	0.11	“ “	“
Total			24.16 Miles		
Asphalt Stabilized			24.16 Miles		
By Contract			20.55 Miles		
By D.O.H.			3.61 “		
Total			24.16 Miles		

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH

HIGHWAY CONSTRUCTION 1963/64

ASPHALTIC SURFACING — MAIN HIGHWAYS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T755G	2-B-1	Stavelly—S. of Claresholm	10.33	4" Plant Mix Surface Course	Contract
T754N	2-C-3/1 & D-1/1	N. of Penhold—N. of Hwy. 11 (four-lane divided)	8.13	4" " " " " "	"
"	"	Interchanges	6.07	4" " " " " "	"
"	"	Hwy. 11 Thru Interchange	0.75	4" " " " " "	"
T753Q	2-D-1/2 & 1/3	N. of Hwy. 11—N. of Lacombe (four-lane divided)	16.84	4" " " " " "	"
"	"	Interchange	2.32	4" " " " " "	"
"	"	Hwy. 12 Thru Interchange	0.76	4" " " " " "	"
T755K	2-H-2 & J1	N. of Dunvegan—Rycroft	15.74	4" " " " " "	"
T753U	3-B-2	W. of Fort Macleod—W. of Brocket	18.80	4" " " " " "	"
T753M	4-A-2	Warner—Milk River	12.10	4" " " " " "	"
T754P	12-B-1	Fleet—W. of Veteran (First Lift)	24.26	2" " " " " "	"
T755B	16-C-1 & 2	E. of Jct. Hwy. 43—N. of Duffield (four-lane divided)	4.86	4" " " " " "	"
"	"	Loops & Connections	0.52	4" " " " " "	"
"	"	Hwy. 43 Thru Interchange	0.67	4" " " " " "	"
T756E	28-B-1 & 2	E. of Bellis—W. of Spedden (First Lift)	13.03	2" " " " " "	"
T755C	43-A-1	Intersection Jct. Hwys. 33 & 43	0.34	4" " " " " "	"
T753X	43-A-2	Whitcourt Channelization (Paid by Bridge Branch)	0.38	2-3" " " " " "	"
Total			135.90 Miles		
By Contract			135.90 Miles		

ASPHALTIC SURFACING — SECONDARY HIGHWAYS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T753Z	21-A-1 & 2	Three Hills—Delburne	33.67	2" Plant Mix Surface Course	Contract
T755H	21-B-2	Bashaw—Duhamel	23.52	4½" " " " " "	"
T754Y	21-B-3	Hay Lakes—Jct. Hwy. 14	22.30	2" " " " " "	D.O.H.
T756F	41-A-2	Vermilion—N. of Vermilion	10.68	2-6" " " " " "	Contract
T755L	49-A-2	Watino—S. of Eaglesham	10.17	4" " " " " "	"
T754C	54-A	E. of Medicine River—W. of Spruceview	13.40	2" " " " " "	"
T753J	61-A	Skiff—Foremost	18.08	Double Asphaltic Surface Treatment On Gravel Sub-base	D.O.H.
T755R	62-A	S. of Magrath—Jct. Hwy. 5	8.46	2½" Plant Mix Surface Course	Contract
Total			140.28 Miles		
By Contract			103.36 Miles		
By D.O.H.			36.92 "		
Total			140.28 Miles		
			Plant Mix Surface Course	122.20 Miles	
			Double Asphaltic Surface Course on Gravel	18.08 "	
			Sub-base	18.08 "	
			Total	140.28 Miles	

ASPHALTIC SURFACING — ACCESS ROADS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T553Z	43:50	Jct. Hwy. 11—Eckville	2.79	4" Plant Mix Surface Course	Contract
T553U	43:65	" " 12—Coronation	0.17	2" " " " " "	"
T553T	43:70	" " 21—Trochu	0.13	2" " " " " "	"
T552A	43:71	" " 21—Huxley	0.34	2" " " " " "	"
T552Q	43:84	" " 43—Onoway	1.03	4" " " " " "	"
T552B	43:89	" " 21—Elnora	2.01	2" " " " " "	"
T552L	43:114	" " 54—Dickson	2.00	2" " " " " "	"
T552W	43:116	" " 28—Vilna	0.12	2" " " " " "	D.O.H.
T553V	43:130	" " 11—Leslieville	1.89	4" " " " " "	Contract
"	"	" " " " " "	2.84	2" " " " " "	"
			(First Lift Only)		
Total			13.32 Miles		
By Contract			11.32 Miles		
By D.O.H.			2.00 "		
Total			13.32 Miles		

DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH
HIGHWAY CONSTRUCTION 1963/64

ASPHALTIC SURFACING — MISCELLANEOUS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T753R	12-D-1	Aspen Beach Intersection	0.26	4" Plant Mix Surface Course	Contract
T153L	093H	Jct. Hwy. 6—E. of Marr Lake	3.75	2½" " " " " "	" *
T153D	130B	" " 2—E. of Glenwood	7.61	2½" " " " " "	" *
T153W	107D	Coaldale—N. of Coaldale	3.54	2½" " " " " "	" *
T155H	42:44	Jct. Hwy. 1—Sarcee Indian Reserve	5.65	2½" " " " " "	" *

Total 20.81 Miles

By Contract 20.81 Miles

* Paid by Maintenance Branch

SEAL COAT — MAIN HIGHWAYS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T754U	2-H-1	Peace River—Jct. Hwy. 35	12.40	Seal Coat	D.O.H.
T754X	2-J-2	N. of Sexsmith—Jct. Hwy. 34	11.22	" "	"
T754G	4-A-1	Lethbridge—Warner	38.28	" "	"
T756K	16-A-1	Blackfoot Revision	2.46	" " (On Base Course)	"
T754T	16-C-1	Winterburn—Spruce Grove	6.00	" " (Eastbound lane)	"
"	16-C-1 & 2	Spruce Grove—N. of Duffield	17.75	" " (four-lane divided)	"
"	"	Interchange	0.79	" "	"
T754W	34-A-3	Smoky River—Jct. Hwy. 2	21.54	" "	"
T754R	43-A-1 & 2	Gunn—Whitecourt	65.93	" "	"

Total 176.37 Miles

By D.O.H. 176.37 Miles

SEAL COAT — SECONDARY HIGHWAYS

JOB NO.	HIGHWAY	LOCATION	MILES	TYPE OF WORK	WORK DONE BY
T755S	18-A-1	Clyde Cor.—N. of Barrhead	30.99	Seal Coat	D.O.H.
T754F	23A2	Champion—Jct. Hwy. 24	24.58	" "	"
T754V	35-A-1	Grimshaw—N. of Grimshaw	2.50	" "	"

Total 58.07 Miles

By D.O.H. 58.07 Miles

STABILIZED BASE COURSE AND ASPHALTIC SURFACING — SUMMARY

STABILIZED GRAVEL BASE COURSE

By Contract	173.19 Miles
By D.O.H.	65.74 "
Total	238.93 Miles

CEMENT STABILIZED BASE COURSE

By Contract	101.26 Miles
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ASPHALTIC PLANT MIX SURFACE COURSE

By Contract	253.31 Miles
By D.O.H.	38.92 "
Total	292.23 Miles

ASPHALTIC SEAL COAT

By D.O.H.	234.44 Miles
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DOUBLE ASPHALTIC SURFACE TREATMENT (On Gravel Sub-Base)

By Contract	18.08 Miles
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DEPARTMENT OF HIGHWAYS
CONSTRUCTION BRANCH

HIGHWAY CONSTRUCTION 1963/64

SUMMARY OF MATERIALS

First Course Gravel Surfacing	395,767	Cubic Yards
Subgrade Backfill Material	123,904	" "
Stabilized Base Course Gravel	2,893,432	Tons
Soil Asphalt Stabilized Base Course	72,642	"
Cement Stabilized Base Course Material	600,870	"
Asphalt Stabilized Base Course Gravel (On Cement Stabilized)	247,978	"
Asphaltic Surfacing Gravel	1,164,963	"
Double Asphaltic Surface Treatment Aggregate	18,095	Cubic Yards
Seal Coat Aggregate $\frac{1}{2}$ " Chips	34,514	" "
Granular Supply for Culverts	29,588	" "
Total Asphalt Used	21,257,542	Gallons
Total Cement Used	47,238	Tons

TOTAL GRAVEL AND SAND MATERIAL REMOVED FROM PITS

Gravel to Road	2,220,521	Cubic Yards
Gravel to Stockpile	1,460,450	" "
Sand to Road	575,680	" "
TOTAL	4,256,651	Cubic Yards

PROTECTION AT RAILWAY CROSSINGS AT GRADE

HIGHWAY	LOCATION	RAILWAY	TYPE OF PROTECTION				
2	At Fort Macleod	C.P.R.	Flashing Light Signals & Bell				
2	At Mitsue	N.A.R.	"	"	"	"	"
2A	At Cayley	C.P.R.	"	"	"	"	"
2A	At Okotoks	"	"	"	"	"	"
12	2 Miles E. of Erskine	"	"	"	"	"	"
36	At Hanna	C.N.R.	"	"	"	"	"
43	At Whitecourt	"	"	"	"	"	"
47	At Coalspur	"	"	"	"	"	"
50	$\frac{1}{2}$ Mile S.W. of Tees	C.P.R.	"	"	"	"	"
62	At Magrath	"	"	"	"	"	"

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

MAIN HIGHWAYS CONSTRUCTION

STATEMENT OF EXPENDITURE FOR THE YEAR ENDED MARCH 31, 1964

JOB NO.	HIGHWAY	LOCATION	TOTAL	ENGINEERING	RIGHT-OF-WAY	GRADING	DRAINAGE INSTALLATION	BASES	SURFACE COURSES & PAVEMENTS	MISCELLANEOUS CONSTRUCTION	HIGHWAY TESTING & RESEARCH	TRAFFIC SAFETY & ROADSIDE DEVELOPMENT	RENTALS EQUIP & SUPPLIES	CAMP & BOARD COSTS
T 756Y	1C1/1	Bow River - W. Bdry. of Bowness Int.	\$ 133,204.90	\$ 4,864.20	\$ 51.24	\$	\$	\$ 66,937.87	\$	\$ 55,661.39		\$ 5,463.37	\$	226.83
T 753N	"	W. of Bowness - W. of Happy Valley	236,063.73	30,334.53	5,088.24	79,440.52	9,331.30	101,124.77	1,066.50	1,286.82		1,043.27	7,347.78	
T 755V	"	Bowness Int. - W. of Bowness	165,751.57	11,279.86	21,841.68	112,434.47	13,664.91			1,309.36		886.00		4,335.29
T 753K	1C1/2	Int. T.C.Hwy. & Cochrane Road	1,436.98	1,436.98										
T 757T	1C1/2&1/3	Four int. W. of Calgary	8,473.48	8,473.48										
T 757L	1C1/3	Sth. of Cochrane - S. of Radnor	11,127.55	11,127.55										
T 757Y	1C2/2&2/3	Kananaskis River - Banff Pk. Bdry.	15,570.22	15,570.22										
T 757B	2AB3	Approaches to Highwood River Bridge	5,145.17	1,036.38		4,108.79								
T 748D	2B1	Stavelly - Sth. of Claresholm	3,880.12		1,453.24			2,345.85				81.03		
T 755G	"	" " " "	233,723.98	1,253.85				594.89	225,530.23	6,145.01			200.00	
T 753G	"	Sth. of Claresholm - Granum	609,571.92	36,086.48	19,167.32	164,299.54	14,614.36	374,123.97	305.50	551.04		123.71	300.00	
T 756Z	2B3	Nth. Bowness Int. - Banff Coach Road	7,039.43	1,392.69				1,822.56		908.08		2,659.25		256.85
T 742M	"	T.C.H. - Banff Coach Road	119,075.11	5,507.28	11,900.51	55,453.83	18,733.94			2,462.80		19,113.17		5,903.58
T 758X	2C3&54A	Interchange 2 & 54 - Innisfail	4,261.35	4,214.91										
T 756Q	2C3/1	Frontage Road - Sth. of Red Deer	46,602.64	5,847.09	711.33	32,102.68	5,307.07			151.99		76.31	59.31	2,346.86
T 747T	2C3/1	S. of Red Deer - Red Deer River	299.18	299.18										
T 754N	2C3/1 - 2D1/1	N. of Penhold - Nth. of Hwy. 11	520,015.49	28,180.62	9,697.98	30,825.91	11,165.96	33,379.69	349,877.29	55,948.06		765.71	174.27	1,377.19
T 756X	2C3/1-2D1/3	Nth. of Penhold - Nth. of Lacombe	40,006.26	1,976.03					36,653.04					
T 742Y	2D1/1	North Red Deer Interchange	4,042.57		4,042.57									
T 753Q	2D1/2&1/3	Nth. of Hwy. 11 - Nth. of Lacombe	620,804.99	27,255.04	1,701.62		1,973.09		565,846.59	23,279.38	341.00	238.60	169.67	
T 742L	2D1/4	Nth. of Lacombe - Nth of Jct. Hwy. 53	61,043.11		61,043.11									
T 751N	"	Nth. of Lacombe - Nth. of Battle River	787,326.51	43,649.27	11,887.43	695,128.28	24,839.95		874.62	4,173.06		6,737.90	36.00	
T 755A	"	Nth. of Battle River - Nth. of Hwy. 53	264,502.81	17,434.50	7,202.35	206,961.63	31,401.56			438.85		241.44	822.48	
T 757E	"	Local road construction adj. to Hwy. 2	2,870.48	1,313.48	1,557.00									
T 756W	"	Relocate Dist. Rd. S.W. Ponoka	46,698.28	2,299.95	1,904.60	40,374.78	1,231.82		194.55	31.76		129.33		531.49
T 759E	"	Nth. of Lacombe - Sth. of Battle River	21,180.86	489.56				20,691.30						
T 758F	2D1/4&2/1	Local road constr. County of Ponoka	7,482.61	7,482.61										
T 750T	2D2/1	Nth. of Jct. Hwy. 53 - W. of Hobbema	17,452.03	611.03	15,340.00						1,501.00			
T 758A	"	" " " " " " " "	52,571.65	911.55	2,780.12	48,879.98								
T 750S	2D2/2	Sth. of Hwy. 19 - W. of Hobbema	9,684.03	120.99	9,563.04									
T 758N	"	" " " " " " " "	57,610.96	373.00	2,647.88	49,077.58	5,512.50							
T 754A	2D3/1	Sth. of Hwy. 19 - W. of Millet	899,112.64	56,901.52	21,081.16	739,649.36	60,679.20	2,326.13	14,161.57	2,793.66	986.75	533.29		
T 742N	2D3/1&3/2	S. of Leduc - Sth. of Jct. Hwy. 19	169,446.13	2,508.97	145,490.16	21,447.00								
T 752S	2D3/2	W. of Millet - Sth. of Leduc	725,016.71	38,768.50	15,273.41	609,967.65	26,859.96		30,736.93	1,444.86		1,965.40		20.89
T 757Q	"	" " " " " " " "	221,954.05	7,489.77				154,440.13	60,003.26					
T 758G	2D3/2&3/1	Local road constr., County of Wetaskiwin	6,227.49	6,227.49										
T 749F	2E1	St. Albert - Morinville	1,742.27	1,742.27										
T 752D	2E2	Clyde corner - W. of Rochester	89,110.25	2,280.01				18,467.13	67,079.53					1,283.58
T 750M	"	Clyde corner - Nth. of Nestow	322,476.91	14,081.44	485.00		810.25	307,009.60				90.62		
T 757K	2E3,2F1	Sth. of Athabasca - W. of Athabasca	10,199.31	10,199.31										
T 748Y	2E3	W. of Rochester - Nth. of Perryvale	110,371.49	8,343.64	8,101.56	77,951.86	3,679.13		8,456.61	3,694.04		102.95	41.70	
T 755U	"	Nth. of Perryvale - W. of Colinton	190,871.93	16,518.37	12,547.55	119,411.97	17,274.84		24,475.26	488.40		155.54		
T 751X	2F4	Slave Lake - W. of Canyon Creek	15,457.05	4,802.90	6,477.00	4,177.15								
T 755E	"	E. of Wagner - " " "												
T 748N	"	E. of Assinneau River - E. of Kinuso	579,715.76	23,613.91	122.00	498,731.24	43,339.50		11,451.40	2,278.86		178.85		
T 756A	"	" " " " " " " "	3,792.67		3,792.67									
T 758C	2G1	W. of Swan River - W. of Strawberry Cr.	31,888.54	1,946.43	4,939.07	21,177.99	2,048.99		1,685.58	90.48				
T 756V	2G1&2	W. of Jousard - E. of High Prairie	75,078.23	11,192.00	3,368.00	60,506.47						11.76		
T 755J	2G2	High Prairie - Triangle	16,969.66	16,969.66									1.63	
T 756M	2G2	E. of High Prairie - Triangle	10,187.14	10,185.51										
T 747V	2AG3	Donnelly - Jct. Hwy. 2	109,340.34	9,849.07	3,394.57	45,043.99	34,342.66	14,609.03	1,908.02			193.00		
T 758V	2G4	Peace River Hill Revision	51,360.97	5,144.67				46,216.30						
T 752X	2H1	Peace River - Jct. Hwy. 35	3,489.85	3,489.85										
T 754U	"	" " " " " " " "	2,015.00						2,015.00					
T 757X	"	" " " " " " " "	24,805.24	376.40					24,183.79					
T 757Z	"	Grimshaw - Berwyn	9,203.71	9,203.71										
T 757H	2H2	Nth. of Dunvegan - Fairview	21,114.57	1,671.88					19,442.69					
T 755H	"	" " " " " " " "	350,728.02	22,317.31	2.26			328,299.57				108.88		
T 755K	2H2 & 2J1	Nth. of Dunvegan - Rycroft	350,741.42	12,810.89			577.60		335,107.73	2,245.20				

DEPARTMENT OF HIGHWAYS

MAIN HIGHWAYS CONSTRUCTION
STATEMENT OF EXPENDITURE FOR THE YEAR ENDED MARCH 31, 1964

JOB NO.	HIGHWAY	LOCATION	TOTAL	ENGINEERING	RIGHT-OF-WAY	GRADING	DRAINAGE INSTALLATION	BASES	SURFACE COURSES & PAVEMENTS	MISCELLANEOUS CONSTRUCTION	HIGHWAY TESTING & RESEARCH	TRAFFIC SAFETY & ROADSIDE DEVELOPMENT	RENTALS EQUIP & SUPPLIES	CAMP & BOARD COSTS
T 756G 2J1		Dunvegan Creek Fill	\$ 4,938.43	\$ 121.17	\$	\$ 3,277.50	\$ 1,378.40	\$	\$	\$ 161.36	\$	\$	\$	\$
T 747U 2J2		E. of Woking - Nth. of Sexsmith	397,509.63	17,277.27		278.25		379,928.68				25.43		
T 752C "		Nth. of Sexsmith - Jct. Hwy. 34	10,412.50	1,148.06					9,264.44					
T 754X "		" " " " "	20,784.57	322.27					20,356.05					106.25
T 752F 3A3		Coaldale - W. of Barnwell	70,265.66	23,649.25	4,653.00	37,391.81	4,571.60							
T 753U 3B2		W. of Ft. Macleod - W. of Brocket	336,279.10	14,549.71	135.00				321,434.91			124.74	34.74	
T 756C "		Maunsell Revision	9,553.83	483.20	6,847.00	2,205.35	18.28							
T 758W 3B3		Castle River Revision	1,212.73	1,212.73										
T 756L 3B4		E. of Crowsnest - B.C. Prov. Bdry.	125,233.29	12,185.15	5,004.00	97,564.89	2,876.68			7,555.86		46.71		
T 754G 4A1		Lethbridge - Warner	77,133.59	1,484.33	50.00				72,732.63			22.00		2,844.63
T 753M 4A2		Warner - Milk River	246,844.85	8,952.98				916.10	236,849.91			125.86		
T 752Y 4A2		Milk River - Coutts	613,141.71	32,884.39	17,597.39	14,272.15	32,961.66	375,317.61		9,925.94		1,727.57		
T 755S 7A		Curve Revision E. of Black Diamond	47,407.30	8,222.87	8,460.72	16,644.76	734.03	13,128.74		125.50		90.68		
T 753P 9C2		W. of Sibbald - Saskatchewan Bdry.	337,446.73	23,165.99	147.00			312,812.78		1,320.96				
T 749L 11C1		Tepee Cr. - Sth. of Allstones Creek	162,410.07	14,149.87			133,516.65	1,537.09		7,177.51				4,518.19
T 751K "		Sth. of Allstones Creek - W. of Windy Point	189,044.69	8,223.65			171,167.93	2,794.30		2,314.10				3,331.82
T 757A 11C2		Edwards Bridge - Banff Park Bdry.	108,164.35	15,848.39			85,960.96					108.01	20.35	6,321.45
T 754M 12A & B1		W. of Veteran - Nth. of Loyalist	387,786.64	15,288.73	1,860.00			370,625.30				12.61		
T 747G 12B1		Coronation - W. of Veteran	10,736.10					10,736.10						
T 754P "		Fleet - W. of Veteran	272,828.84	11,792.64				982.24		260,053.96				
T 758V 12B1&2		E. of Halkirk - W. of Veteran	9,174.82	542.99					8,197.29					434.54
T 755D 12C1&D1		W. of Lacombe - Sth. of Clive	541,751.65	41,471.66	31,406.00	229,263.54	16,728.26	215,597.49		5,785.69	1,149.01		350.00	
T 753R 12D1		Aspen Beach Intersection	3,603.54	621.08					2,982.46					
T 758L 12D1-51A&20A		Intersection of Hwys. 12, 51 and 20 at Bentley	3,152.47	3,152.47										
T 756U 12D2		Rimby - Sth. of Winfield	25,728.28	25,728.28										
T 754Z 14A		E. of Edgerton Jct. - N. of Chauvin	296,351.62	16,469.89	247.00			279,351.16				283.57		
T 757F 14C3		Edmonton - Salisbury Corner	70,467.40	15,467.40	55,000.00									
T 756K 16A1		Blackfoot Revision	19,715.64	584.26					18,919.97					211.41
T 752U 16B2		Interchange Hwys. 16 & 55	39,479.66	8,394.66	31,085.00									
T 753A 16C1		Spruce Grove - E. of Jct. Hwy. 43	27,344.96	1,810.49				13.35	25,170.43					350.69
T 754T 16C1&2		" " - Nth. of Duffield	76,784.29	1,503.96	450.00				74,196.37					633.96
T 755B " "		E. of Jct. 43 - Nth. of Duffield	180,646.55	6,619.95	4,256.00			2,973.83	165,297.67	1,499.10				
T 747H " "		" " " " " "	4,057.13	1,004.33	628.96	267.31		2,156.53						
T 756B 16C2		Gainford - Magnolia Underpass	38,659.22		38,659.22									
T 758K 16C2&31A		Interchange at Jct. of Hwy. 16 and 31, Nth. of Seba	6,499.04	6,499.04										
T 749P 16C3		Entwistle to West of Styal	165,571.56	11,591.47	727.00			153,253.09						
T 757H 16D1&2		Carrot Creek to Galloway	38,804.33	2,032.53					34,628.09					2,143.71
T 743U 16D2		E. of Sundance Cr. - Galloway	673,161.32	35,979.63	1,727.71	410,458.03	7,285.36	210,971.57		6,625.11		113.91		
T 755Z 17A2		Jct. Hwy. 14 - Dilberry Prov. Park	290,799.28	21,746.41	28,337.44	188,107.10	17,110.75		34,421.26	1,051.32		25.00		
T 754S 18A1		Clyde Corner - Barrhead Corner	49,834.16	771.70					48,268.79					793.67
T 757D 18A2		Barrhead Corner - W. of Bloomsbury	826.19	120.00					706.19					
T 756R 19A1		Wetaskiwin - Westeros	21,243.32	1,396.87	25.00				19,108.72					712.73
T 757M 19A2		Westerose - Winfield	72,188.34	21,222.03	16,087.00	34,470.81					408.50			
T 759B 21A1		Three Hills - Junction of Hwy. 9	2,315.32		50.00				2,265.32					
T 753Z 21A1&2		Three Hills - Delburne	257,339.34	12,399.82				2,704.38	240,794.59	1,351.75		88.80		
T 755F 21B1		Mirror - Bashaw	266,475.31	20,113.72	1,723.00			244,638.59						
T 755H 21B2		Bashaw - Ervick	884,345.77	54,243.58	742.65		325.00	421,460.75	389,879.18			29.10	85.93	17,569.58
T 752J "		" " " " " "	4,294.22	4,294.22										
T 757J 21B3		Ervick - Jct. Hwy. 14	32,779.15	2,019.67					29,704.01		5.20			1,050.27
T 754Y "		Hay Lakes " " "	242,666.10	12,257.79					229,999.81	377.09		31.41		
T 753D 21C1		W. of Rockyford - Jct. Hwy. 9	300,218.98	23,450.45	46,618.60	174,776.30	27,586.00		19,786.77	8,000.86				
T 755W 22A		Turner Valley - Black Diamond	66,487.30	10,313.26	626.93	1,557.89	1,360.92	52,527.80		57.50			43.00	164.60
T 754P 23A2		Champion - Jct. Hwy. 24	44,394.66	1,053.59					43,165.47			11.00		
T 755T 24A		C.P.R. Tracks at Cheadle	1,275.33	484.88			157.31		633.14					
T 756T 25A		Hwy. 25 near Turin	10,204.22	9,968.65	224.19		11.38							
T 756S "		Nth. of Turin - W. of Enchant	6,178.03	6,178.03										
T 757W 26A		E. of Jct. 21 - Carbon	9,553.37	9,553.37										
T 758T 27A		Olds - Sundre	19,890.35	1,280.34					18,227.26					

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

MAIN HIGHWAYS CONSTRUCTION
STATEMENT OF EXPENDITURE FOR THE YEAR ENDED MARCH 31, 1964

JOB NO.	HIGHWAY	LOCATION	TOTAL	ENGINEERING	RIGHT-OF-WAY	GRADING	DRAINAGE INSTALLATION	BASES	SURFACE COURSES & PAVEMENTS	MISCELLANEOUS CONSTRUCTION	HIGHWAY TESTING & RESEARCH	TRAFFIC SAFETY & ROADSIDE DEVELOPMENT	RENTALS EQUIP. & SUPPLIES	CAMP & BOARD COSTS
T 756S	27B1	W. of Torrington - E. of Three Hills Cr.	9,421.98	1,423.21	550.00	6,343.51	890.86		214.40					
T 753H	"	E. of Three Hills Creek - Jct. Hwy. 21	137,877.70	11,876.29	16,879.31	75,507.87	10,190.03		22,535.53	884.24		4.43		
T 757G	28A1	Edmonton - Mamao	14,135.09	14,135.09										
T 757E	"	"	313,666.07	5,076.95				217,365.12	88,310.81					2,913.19
T 756E	28B1&2	East of Bellis - West of Spedden	118,348.03	5,941.72					112,406.31					
T 755N	28B2	W. of Spedden - Ashmont	289,003.80	19,123.35				269,833.84					46.61	
T 758H	"	Ashmont - St. Paul	28,139.52	1,103.96					25,726.80					1,308.76
T 756J	23B3	St. Paul - E. of St. Edouard	165,837.78	14,235.54	21,167.80	98,570.23	21,952.37		9,698.38	90.00			123.46	
T 752Z	"	St. Paul - Jct. Hwy. 41	24,270.65	24,270.65										
T 743T	28AB3	S. of Mallaig - S. of Glendon	63,328.54	7,949.89	266.00	40,400.76	1,210.15		12,847.15	654.59				
T 753V	"	S. of Glendon - E. of Rife	291,866.16	20,772.00	2,497.00	230,710.85	19,655.44		18,230.87					
T 750X	28C2	E. of Moose Lake - W. of Bonnyville	2,209.99	1,569.19		640.80								
T 750D	"	W. of Bonnyville - Ardmore	276,480.49	9,333.16				266,781.53				37.80		
T 755Y	32A	Jct. Hwy. 16 - Peers	176,781.75	11,681.31	5,742.09	139,615.44	6,992.68		12,413.45	336.78				
T 752T	"	Jct. Hwy. 16 - Nth. of McLeod River	3,834.40	3,834.40										
T 752E	34A3	Smoky River - Jct. Hwy. 2	7,819.45	889.09					6,930.36					
T 754W	"	" " " "	52,310.85	505.21					51,494.54					311.10
T 752L	35A1	Grimshaw - Nth. of Grimshaw	68.61	8.11					60.50					
T 754V	"	" " " "	6,070.82	249.95					5,722.56					98.31
T 750G	35B3	High Level (Right-of-Way)	9,373.00		9,373.00									
T 756P	35C1	Mile 211.63 (Drainage improvement)	65,673.86	1,915.63		928.28	62,829.95							
T 750J	36A3	Jct. Hwy. 9 - E. of Nanna	40,192.31	1,609.01	6,445.46	24,658.61	324.80		6,953.28	141.15		60.00		
T 753B	"	Nth. of Garden Plains - E. of Hanna	339,425.71	26,994.25	33,578.67	222,271.04	23,657.55		29,447.05	2,154.06		1,323.09		
T 754H	36B2	E. of Lavoy - Jct. Hwy. 45	553,475.22	19,375.15	295.00	9,746.50	819.69	514,889.70	3,233.84	111.76		55.59		4,947.99
T 750H	36C2	W. of Sheerness - Jct. Hwy. 9	68,780.42	5,421.38	993.70	45,848.80	1,492.70		14,801.99	221.85				
T 753L	36D2	Vauxhall - Sth. of Scandia	284,420.62	9,063.74				275,319.63				37.25		
T 753S	39A2	Nth. of Thorsby - W. of Warburg	304,357.17	18,419.39	329.00			285,529.58				79.20		
T 756N	"	Channelization - Warburg Access Road	1,025.68	176.68		849.00								
T 750W	41A1	Vermilion - Wainwright	17,754.55	16,241.63	1,512.92									
T 757C	41A2	Vermilion - Nth. of Vermilion	7,364.33	1,120.48		4,159.37		2,084.48						
T 756F	"	" " " "	153,837.13	8,647.26	20.00				145,126.03			43.84		
T 754D	41A2	Nth. of Vermilion - Jct. Hwy. 45	297,320.51	31,488.35	2,565.12	40,612.70	1,184.68	220,113.04	465.40	851.90		39.32		
T 755X	"	Rd. connection Nth. of Vermilion	9,952.26	1,764.68	1,390.59	5,822.76	185.50		788.73					
T 758B	"	Sask. R. - Jct. Hwy. 28	6,535.74	6,535.74										
T 753C	41C5	E. of Red Deer Lake - S. Chappice Lake	386,503.50	22,904.24	52,642.57	264,731.97	13,536.49		29,528.01	2,374.16		531.19	254.87	
T 753T	42A	Penhold - W. of Pine Lake	467,959.50	34,557.98	775.00			432,579.32				12.61	34.59	
T 742U	"	E. of Pine Lake - Jct. Hwy. 21	46,082.63	4,909.68	6,205.62	25,213.25	1,486.41		8,209.40	58.27				
T 755C	43A1	Intersection of Hwy. 43 & 33	4,723.60	131.28		527.00			3,803.52	261.80				
T 754R	43A 1 & 2	Gunn - Whitecourt	119,247.64	2,212.48	506.00				115,727.13					802.03
T 753X	43A2	Channelization at Whitecourt	38,675.95	11,958.70	724.55	15,525.43	2,120.15	6,891.50	613.85	67.60		774.17		
T 758P	43B1&2	Whitecourt - Valleyview (climbing lanes)	4,418.98	4,418.98										
T 753Y	44A1	Westlock - East of Dapp	328,127.04	17,289.90	1,845.50		1,456.46	307,141.00				394.18		
T 758M	"	East of Dapp - North of Jarvie	284,198.91	4,259.30				176,844.10	102,234.81				345.00	515.70
T 743W	44A2	Nth. of Tieland - Nth. of Chisholm	79,531.68	15,026.91	100.00	55,392.02	878.61		7,979.31	154.83				
T 749J	45A1	Deerland - Sth. of Peno	60,681.34	6,487.85	3,804.95	27,935.67	3,378.79		15,746.30	3,327.78				
T 754E	"	Sth. of Peno - Andrew	335,646.91	17,253.45	40,371.36	227,453.70	15,230.42		33,635.66	1,090.60		567.71	44.01	
T 749K	45A2	E. of Willingdon - W. of Hairy Hill	5,419.20	1,187.69	2,201.00	20.52			1,872.03	137.96				
T 754Z	45A-243	W. of Two Hills - Sth. of Duvernay	136,422.80	12,693.06	5,616.20	71,805.96	4,750.37	37,923.29		245.62				3,388.30
T 757S	45A3	E. of Two Hills - Myrnam	16,291.00	16,291.00										
T 747Y	46A	Abee - W. of Alpen	133,853.27	12,279.89	14,506.20	83,611.08	2,898.85		19,347.94	934.87		274.44		
T 753F	"	W. of Alpen - W. of Boyle	228,302.28	20,185.27	24,148.39	143,680.89	13,188.09		26,625.34	459.80		14.50		
T 752Z	46A2	W. of Boyle - Donatville	36,499.17	1,497.29					34,971.88				30.00	
T 758Q	46B	Donatville - W. of Grassland	4,939.02	4,939.02										
T 747W	49A1	Jct. Hwy. 2 - Falher	151,928.81	11,129.02				140,799.79						
T 749Z	49A2	Watino - Sth. of Eaglesham	3,106.20	1,827.00	164.59			1,114.61						
T 755L	"	" " " "	150,044.57	5,980.01					143,127.65	813.20		123.71		
T 757P	49A3	Rycroft - Sth. of Belloy	68,366.79	5,902.05				27,466.91	34,872.57			25.26	100.00	
T 753W	53B	Jct. Hwy. 2A - W. of Ponoka	85,819.13	6,345.75	15,719.55	51,619.91	7,836.55		3,803.71	394.45		99.21		
T 754X	"	Fifth Meridian - Nth. of Rimbey	280,528.76	22,980.96	2,545.50	38,260.41	1,537.95	161,588.07	53,432.46	145.45		37.96		

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

MAIN HIGHWAYS CONSTRUCTION
STATEMENT OF EXPENDITURE FOR THE YEAR ENDED MARCH 31, 1964

JOB NO.	HIGHWAY	LOCATION	TOTAL	ENGINEERING	RIGHT-OF-WAY	GRADING	DRAINAGE INSTALLATION	BASES	SURFACE COURSES & PAVEMENTS	MISCELLANEOUS CONSTRUCTION	HIGHWAY TESTING & RESEARCH	TRAFFIC SAFETY & ROADSIDE DEVELOPMENT	RENTALS EQUIP. & SUPPLIES	CAMP & BOARD COSTS
T 754J	54A	Innisfail - E. of Medicine River	\$ 60,923.06	\$ 2,592.76	\$	\$	\$	\$ 50,079.70	\$ 5,928.70	\$	\$	\$	\$	\$ 2,321.90
T 754C	"	E. of Medicine River - W. of Spruceview	312,137.33	16,371.21	110.00			114,164.79	176,225.42			50.40		5,215.51
T 751L	"	Innisfail - W. of Spruceview	47,431.76	2,627.21				36,257.74	7,302.80					1,244.01
T 757Z	57A	Jct. Hwy. 16 - Drayton Valley	21,254.16	2,006.24					18,029.23					1,218.69
T 748T	59A	La Glace - W. of Valhalla Centre	6,089.49		6,089.49									
T 754L	"	W. of Valhalla Centre - Jct. Hwy. 2	204,236.73	19,005.46	22,293.62	110,152.39	13,848.75		37,032.13	1,723.38		181.00		
T 743R	60A	Jct. Hwy. 16 - Nth. of Nth. Sask. River	73,690.07	8,799.50	15,107.30	41,030.76	1,883.72		6,652.92	215.87				
T 755P	"	" " " " " " " "	308,710.03	16,015.18				292,644.41				50.44		
T 758E	"	Nth. of Nth. Sask. River - Devon	7,330.98	7,330.98										
T 753J	61A2	Skiff - Foremost	255,202.10	21,629.35	685.00	11,736.00	620.00	161,100.64	59,293.41	137.70				
T 755R	62	Sth. of Magrath - Jct. Hwy. 5	295,969.13	13,671.26	33.00	18,085.24	1,804.43	153,130.36	104,927.95	2,952.34		1,361.29	3.26	
T 755Q	50.04	Nth. of Wandering R. - E. of May Tower	725,459.69	28,916.68	100.00	653,178.42	16,841.98		22,361.43	280.00		207.14		3,574.04
T 752R	"	" " " " " " " "	50,961.89	6,678.56		42,695.23								1,588.10
T 758Z	"	East of May Tower - East of Pelican Portage	21,166.34				21,166.34							
T 757U	"	Sth. of House River - W. of Algar Tower	34,763.02	23,926.94		3,420.00								7,416.08
T 759A	"	West of Gregoire Lk. I.R. - Hanging Stone R.	19,071.07				19,071.07							
T 757V	"	W. of Algar Tower - Ft. McMurray	43,853.21	30,630.37		4,482.34							153.66	8,586.84
T 753E	"	W. of Athabasca River - Sth. of Ft. McMurray	51,269.58	20.50	51,249.08									
TRAFFIC CONTROL, CONSTRUCTION & MISCELLANEOUS:														
T 744B	1	Calgary - Banff Park Bdry.	42,201.30	1,465.88	75.00	54.72						37,971.05		2,634.65
T 744E	1X	Jct. Hwy. 1 - Jct. Hwy. 1A (Seebe Corner)	5,376.62		509.67							4,788.20		78.75
T 744F	2	Carroway - Calgary	28,940.35	260.93	17,554.98							9,937.44		1,187.00
T 744K	"	" " " " " " " "	2,404.68									2,404.68		
T 744G	"	Calgary - Edmonton	207,580.94	21,673.90	35,407.28	1,406.00	671.13	3,481.93	2,367.13	1,136.72		138,910.94		2,525.91
T 744L	2A	" " " " " " " "	11,395.56									11,395.56		
T 744H	2	Edmonton - Peace River	21,882.70	1,191.30	12,172.86	80.19						8,414.35	24.00	
T 744J	"	Peace River - B. C. Bdry.	25,802.28	1,869.71	1,137.00		4,895.57				1,308.00	16,571.33		20.67
T 744P	3	Medicine Hat - Crowsnest	21,070.41	721.03	71.00	16.00						18,633.53		1,628.85
T 744Q	4	Lethbridge - Coutts	14,967.17	50.18	300.00							14,143.59		473.40
T 744R	5	Lethbridge - Waterton Park Bdry.	10,263.01		104.00							10,073.04		85.97
T 744S	6	Pincher - Waterton Park Bdry	40.11		30.71	9.40								
T 744T	7	Okotoks - Longview	396.05	277.39								118.66		
T 744V	9	Inverlake - Alsask	16,357.57	2,028.26								13,671.15		658.16
T 744X	11	Jct. Hwy. 2 - Banff Park Bdry.	2,729.27	301.50					2,329.59			98.18		
T 744Y	12	Sask. Bdry. - Norbuck	13,380.97	10,184.45	556.20							2,640.32		
T 744Z	13	Sask. Bdry. - Wetaskiwin	1,756.08	172.33								348.00	1,235.75	
T 745A	14	Sask. Bdry. - Edmonton	3,968.16	1,862.84	246.37			575.49				1,233.46	50.00	
T 745B	15	Edmonton - E. of Mundare	716.70	346.55	100.32							269.83		
T 745C	16	Sask. Bdry. - Edmonton	9,249.49		3,411.00							5,838.49		
T 745D	"	Edmonton - Jasper Park Bdry.	36,936.07	2,636.78	819.63	98.00	566.82		138.18		60.75	32,615.91		
T 745E	17	Jct. Hwy. 14 - Nth. Sask. River	498.60									498.60		
T 745F	18	Clyde Corner to Swan Hills	2,214.82		157.62							2,057.20		
T 745H	20	Bentley - Sylvan Lake	1,548.25	21.00	779.73							747.52		
T 745G	21	Jct. Hwy. 9 - Jct. Hwy. 14	63,531.60	685.97	718.08			209.22				58,235.03	50.00	3,633.30
T 745K	22	Midnapore - Black Diamond	21,668.91	1,415.48		5,591.64				12,994.56		1,667.23		
T 745L	23	Monarch - High River	8,088.75	119.23				480.73	5,021.72			2,467.07		
T 745M	25	Lethbridge - E. Little Bow River	2,279.10									2,195.35		83.75
T 745N	26	Beiseker - Sth. of Carbon	1,385.97			1,143.00						242.97		
T 745P	27	Sundre - Jct. Hwy. 21	15,327.11	2,572.79	145.00	6,710.62	56.00		708.28			5,134.42		
T 745R	28	Edmonton - Cold Lake	8,905.45	3,874.34	250.00	26.00		171.40	171.40			4,312.31	100.00	
T 745W	33	Jct. Hwy. 43 - Alberta Beach	126.25		49.00		77.25							
T 745X	34	Little Smoky River - Jct. Hwy. 2	4,795.63	1,249.44	258.00							3,278.19		
T 745Y	35	Grimshaw - Nth. Provincial Bdry.	1,746.38	49.50	72.00	80.00						1,544.88		
T 745Z	36	St. Brides - Taber	70,884.97	18,201.95								51,763.27		
T 745A	39	Leduc - Norbuck	4,319.52		512.53	1,624.85	968.62					1,213.52		
T 745B	41	Jct. Hwy. 28 - S. of Chappice Lake	28,052.94	1,806.77	4,163.75							21,821.48		

DEPARTMENT OF HIGHWAYS

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GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

EXPENDITURE ON HIGHWAYS PORTION OF THE FIVE - YEAR PROGRAMME

For the Year Ended March 31, 1964

Street Paving, Sidewalk, Curb and Gutter Construction in Towns, Villages and Hamlets

Project	Town, Village or Hamlet	Total	Street Improvement & Graveling Sq. Yds.	Asphaltic Surfacing Sq. Yds.	Stabilized Base Course Sq. Yds.	Concrete Sidewalks Lin. Ft.	Concrete Or Curbs Lin. Ft.	Curbs & Gutters Work Done By	Expenditure
40.00E23	Village of Carstairs	1,123.65				432		Contract	\$ 1,123.65
" E7	" " Champion	2,525.83				1,225		"	2,525.83
" E14	Town of Didsbury	1,188.87				349		Day Labor	1,188.87
" E20	" " Lacombe	3,817.62				1,110		Contract	3,817.62
" E32	" " Vegreville	2,484.82				695		"	2,276.46
							123	"	208.36
" E50	Village of Chipman	11,460.00				2,048		"	3,320.60
							5,684	"	8,139.40
" E56	Town of Irvine	177.39				46		Day Labor	177.39
" E57	Village of Alix	193.41				146		"	193.41
" E65	Town of Magrath	2,948.54					1,062	Contract	2,948.54
" E67	Village of Youngstown	262.50				60		Day Labor	262.50
" E93	Town of High Prairie	33,650.00				8,345		Contract	16,903.45
							7,958	"	16,746.55
" E98	Hamlet of Winfield	1,530.65				800		"	1,530.65
" E112	Town of McMurray	1,401.99				527		Day Labor	1,401.99
" E128	" " Peace River	2,350.00					1,567	Contract	2,350.00
" E130	Hamlet of Canyon Creek	2,361.79	3,329					Day Labor	2,361.79
" E131	Village of Willingdon	767.53				341		Contract	767.53
" E151	Hamlet of Barnwell	1,555.27				1,017		"	1,555.27
" E166	Village of Frank	11,170.47				4,867		Day Labor	11,170.47
" E168	Hamlet of Smith	1,522.62	2,208					"	1,522.62
" E190	" " Buck Lake	4,619.06				2,247		Contract	4,619.06
" E197	Town of Drayton Valley	2,577.27				528		"	567.10
							874	"	2,010.17
" E213	Hamlet of Midlandvale	2,972.59				1,587		"	2,972.59
" E214	" " Nacmine	8,178.99				4,166		"	8,178.99
" E216	" " East Coulee	6,603.70				2,970		Contract & Day Labor	6,603.70
" E217	" " Newcastle	3,417.79	3,466					Day Labor	2,530.86
						338		Contract	886.93
" E233	Village of Acadia Valley	1,124.52	3,125					Day Labor	1,124.52
" E234	Hamlet of Jousard	2,546.42	2,707					"	2,546.42
" E238	" " Ft. Vermilion	1,086.93	Regravel					"	1,086.93
" E256	" " Ft. Chipewyan	450.29	600					"	450.29
" E265	Village of Alliance	171.28				112		"	171.28
" E292	" " Halkirk	10,767.09				4,372		Contract	9,828.65
							493	"	938.44
" E299	" " Morrin	3,109.70				1,315		"	3,109.70
" E311	" " Standard	538.34				235		"	538.34
" E314	Town of Trochu	17,290.00		6,979	6,979			"	17,290.00
" E322	Hamlet of North Drumheller	4,021.26	4,333					Day Labor	3,579.50
						207		Contract	441.76
" E325	" " Central Park	1,170.49					371	Day Labor	1,170.49
" E331	" " South Drumheller	6,270.39	2,674					"	2,000.83
						2,163		Contract	4,269.56
" E332	" " Edson (Adjacent)	6,947.20	14,330					Day Labor	6,947.20
" E333	" " Ft. McKay	9,977.35	10,500					"	9,977.35
" E336	" " Grouard	1,481.56	Regravel					"	1,481.56
" E342	" " Lloydminster (adjacent)	11,896.12				3,079		Contract	6,489.88
							2,813	"	5,406.24
" E343	" " Longview	11,610.00				2,855		"	11,610.00
" E344	" " Mallaig	2,187.18	20,730					Day Labor	2,187.18
" E346	" " Mulhurst	12,190.00			10,692			Contract	12,190.00
" E353	" " Stettler (adjacent)	1,057.50	1,000					Day Labor	1,057.50
" E354	" " Three Hills (adjacent)	5,562.08				1,529		"	5,562.08
" E355	" " Turner Valley (adjacent)	13,170.18			16,895			Contract	13,170.18
" E356	" " Wabasco	2,856.08	7,040					Day Labor	2,856.08
" E360	" " West Peace River	10,154.93				5,597		Contract	10,154.93
" E391	Village of Hussar	11,500.00	22,900					"	7,856.20
						3,002		"	3,643.80
Appropriation 1542		\$259,999.24	98,942	6,979	34,566	58,310	20,945		\$259,999.24

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

HIGHWAY SAFETY CONTROL

Expenditure for the Year Ended March 31, 1964

Salaries	\$32,773.14
Traffic Count — Field	25,893.13
Traffic Count — Office	4,527.46
Speed Studies — Field	4,953.64
Study of Traffic Accidents	1,890.33
Pedestrian Count and Special Counts	6,248.01
Appropriation 1540	<u>\$76,285.71</u>

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

APPROACH ROADS

Statement of Expenditure for the Year Ended March 31, 1964

Job Number	File	Location	Total	Engineering	Right of Way	Grading	Drainage Installation	Bases	Surface Courses & Pavements	Miscellaneous Construction	Traffic Safety & Roadside Development	Camp & Board Costs
T552Z	43.50	Jct. Hwy. 11 to Eckville	\$ 62,005.28	\$ 4,666.69	\$ 600.00	\$	\$ 23.00	\$ 19,089.11	\$ 37,495.19	\$	\$ 131.29	\$
T554A	43.53	" " 1 to Cluny	81.21		81.21							
T553Y	43.54	" " 21 to Three Hills	785.64	95.95				132.04	537.65			
T553U	43.65	" " 12 to Coronation	1,610.34	197.52					1,412.82			
T553T	43.70	" " 21 to Trochu	8,098.92	1,158.50		5,609.39	85.40	4.60	1,241.03			
T552A	43.71	" " 21 to Huxley	3,236.12	77.81					3,158.31			
T553Q	43.84	" " 43 to Onoway	16,329.55	13.50					16,316.05			
T552B	43.89	" " 21 to Elnoia	15,743.44	213.01					15,530.43			
T552V	43.103	" " 2 to Clyde	12,838.62	90.04		440.00		12,748.58				
T552S	43.108	" " 13 to Cadogan	440.00					29,012.20	18,710.15			798.20
T552L	43.114	" " 54 to Dickson	51,178.74	2,658.19								
T552T	43.115	" " 16 to Fransburg	2,075.00	2,075.00								
T552W	43.116	" " 28 to Verna	721.46	270.90					450.56			
T552K	43.117	" " 46 to Newbrook	6,785.27		20.25	5,121.89	426.80		1,104.77	111.56		
T552N	43.119	" " 49 to Father	20,927.25		2,220.79	7,890.76	2,285.83	18,527.27	2,840.81	164.88		
T553H	43.120	" " 2 to Gram	19,168.22	5,324.18				222.47	596.65			
T553G	43.121	" " 9 to Delta	1,434.40	615.28					4,001.83	231.70	329.48	
T553K	43.122	" " 9 to Craigmyle	41,925.91	4,597.63	6,921.23	22,319.74	3,524.30		5,816.30	340.20	17.66	
T553K	43.124	" " 2 to Widewater	740.86	565.04	158.16				53,400.21	413.73	165.52	
T553M	43.126	" " 2 to Rochester	73,705.17	4,127.68	6,397.29	50,279.48	6,578.70	35,434.69	5,816.30		523.59	
T553V	43.130	" " 11 to Leslieville	209,111.92	20,191.14	14,443.34	75,564.65	9,140.57	3,976.77				
T553W	43.131	" " 39 to Thorsby	4,180.51	203.74							29.61	
T553X	43.132	" " 39 to Warburg	6,379.36	1,535.50	811.50	2,341.32	601.16	37.39	1,022.88			
T554B	43.133	" " 21 to Rockyford	3,543.58	3,543.58								
Appropriation	1541		\$563,046.77	\$53,061.83	\$31,653.77	\$169,567.23	\$22,665.76	\$119,185.12	\$163,655.64	\$1,262.07	\$1,197.15	\$798.20

Note: Salaries are included in Appropriation 1584

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

ROADS TO NATURAL RESOURCES

Statement of Expenditure for the Year Ended March 31, 1964

APPROPRIATION 1589

Job Number	Hwy. Section	Location	Total	Engineering	Right of Way	Grading	Drainage Installation	Surface Courses	Misc. Const.	Bases	Traffic Safety & Roadside Develop.	Rental Advance	Camp & Board Costs
T932A	35A1	N. of Grimshaw to Dixonville	\$ 263,430.89	\$ 27,177.72	\$ 5,340.85	\$ 182,933.56	4,664.50	\$ 40,508.25	\$2,806.01	\$	\$	\$	\$
T932R	35A2	Dixonville to North Star	558,157.23	36,430.14	6,575.60	380,608.86	49,213.56	82,512.18	2,563.13		103.46	150.00	
T932Q	35A3	North Star to Hotchkiss	295,587.01	24,786.46	33,329.31	157,428.20	34,748.55	44,248.30	527.70		518.49		
T932T	35B3	N. of Metis Settlement to High Level	23,883.14	601.56				23,281.58					
T932U	35C1	High Level to Meander River	5,550.86	855.26				4,715.60					
T932V	35C2	Meander River to Steen River	50,751.04	1,765.44				48,985.60					
T932W	35C3	Steen River to N. Prov. Bdy.	60,359.83	2,442.08				57,917.75					
T932X	35A2 & 3	S. of North Star to Manning	123,030.82	6,518.77		213.60				115,938.45		360.00	
T932Y	35	N. of Grimshaw to N. Prov. Bdy.	38,163.00										
T932F & S	58A	High Level to N. of Ft. Vermilion ..	418,534.93	37,707.29	1,571.14	325,630.99	8,754.42	43,031.50	562.50		38,163.00		319.11
T932M & N	58B	N. of Ft. Vermilion to Lawrence River	3,083.89	2,494.57	213.00	40.85					957.98		335.47
		TOTALS	\$1,840,532.64	\$140,759.59	\$47,029.90	\$1,046,856.06	\$97,381.03	\$345,200.76	\$6,459.34	\$115,938.45	39,742.93	\$510.00	\$654.58

Salaries are Included:

MEMORANDUM

Reimbursement by the Dominion Government — 50% of Shareable Expenditure including Bridges, under Roads to Natural Resources Dominion Provincial Agreement, dated December 23, 1959, as follows:

April 1, 1958 to March 31, 1959	\$ 634,115.67
" " 1959 " " " 1960	865,884.33
" " 1960 " " " 1961	1,662,131.19
" " 1961 " " " 1962	1,812,443.16
" " 1962 " " " 1963	868,994.56
" " 1963 " " " 1964	750,000.00
	<u>\$6,593,568.91</u>

BRIDGE BRANCH

DEPARTMENT OF HIGHWAYS

BRIDGES CONSTRUCTION AND MAINTENANCE

E. J. Sanden, Chief Bridge Engineer

Bridge construction and bridge maintenance continued during 1963 - 64 at about the same level as the year before. The need for grade separation and access control structures on main highways, the ferry replacement program on district highways, and the re-construction of bridges on local roads to higher standards of geometrics and safety continues to be the main factors influencing the bridge programme. Construction was undertaken on a total of 505 bridge structures of which 453 were the standard type bridge. In addition, 207 bridges were repaired. The standard type bridges include 210 bridges of short spans, mostly precast concrete. As well, 243 culvert structures of precast concrete and corrugated metal pipe and timber were constructed. Eighteen bridges of the major or semi-major category were under construction on main highways and 33 on district roads. The main highway structures include 12 grade separations.

Construction of the major and semi-major bridges was done through the award of contract by public tender. The programme of bridge maintenance and standard bridge construction was carried out by fifteen Department bridge crews which were reduced by one from previous year. The many culverts installed, to replace bridges or to serve in lieu of bridges at new sites, were included in highway contracts or were installed by the local road authorities.

Approach roads to bridges necessitating heavy work in deep valleys, were completed at the North Saskatchewan River Bridge at Waskatenau, the Red Deer River Bridge at Tolman and at the Little Smoky River Bridge south of Girouxville.

The following major bridges under construction are noted:

1. The North Saskatchewan River Bridge at Waskatenau was completed and officially opened to traffic on September 25th, 1963. This welded steel bridge replaces the ferries at Waskatenau and Warspite.
2. The North Saskatchewan River Bridge at Heinsburg was completed and officially opened to traffic on October 9th, 1963. This long-span, welded steel bridge replaces the ferries at Heinsburg and Lindbergh.
3. The Battle River Bridge and 6 overpasses were completed and 4 other overpasses partially completed on new Highway No. 2 between Leduc and north of Lacombe.
4. The Highwood River Bridge on Highway 2A in High River was completed. This tapered steel girder bridge with 28 ft. roadway replaces the old narrow through truss at the site.

5. The piers and abutments were completed and the prestressed concrete girders erected at the Red Deer River Bridge at Tolman. This bridge will be 605 ft. long with a 26 ft. roadway and will replace the ferry at Tolman.
6. The Little Smoky River Bridge south of Girouxville was completed, replacing the ferry south of Falher. This bridge consists of two truss spans of 130 ft. each and one of 250 ft. with 22 ft. roadway.

Following are listed the major and semi-major bridges under construction during 1963 - 64 on main highways and district roads, and a numerical summary of the standard type bridges constructed and bridges repaired.

Construction of Major and Semi-Major Bridges on Main Highways

RIVER BRIDGES

FILE	HIGHWAY	PROJECT	BRIDGE TYPE
9337	21	* Rosebud River—Baintree	Precast Concrete
589	2A	* Highwood River—High River	Continuous Steel Girder
75535	2	* Battle River—Ponoka	Prestressed Concrete Girder
75539	58	Ponton River—High Level	Continuous Steel Girder
75731	50:04	* Wandering River	Prestressed Concrete Girder
2430	54	* Medicine River—Innisfail	Prestressed Concrete Girder

GRADE SEPARATIONS

FILE	HIGHWAY	PROJECT	BRIDGE TYPE
75722	2	Dist. Road over Hwy.—Wetaskiwin	Prestressed Concrete Girder
75651	2	Dist. Road over Hwy.—Ponoka	Continuous Steel Girder
75555	2	Hwy. 19 over Hwy. 2—Wetaskiwin	Welded Steel Rigid Frame
75667	2	* Dist. Road over Hwy.—Millet	Prestressed Concrete Girder
75678	2	* Dist. Road over Hwy.—Millet	Continuous Steel Girder
75677	2	* Dist. Road over Hwy. Kavanaugh	Continuous Steel Girder
75522	2	* Interchange Hwys. 2 & 2A—Leduc	Continuous Steel Girder
9467	1	* Happy Valley Access Road Bowness	Precast Concrete
75661	2	* Dist. Road over Hwy.—Morningside	Prestressed Concrete Girder
75644	2	* Interchange Hwys. 2 & 2A—Morningside	Continuous Steel Girder
75078	1	* T.C.H. & By-Pass at Bowness	Continuous Steel Girder
75754	2	Dist. Road over Hwy.—Morningside	Prestressed Concrete Girder
* Completed 1963 - 64			

Construction of Major and Semi-Major Bridges on District Roads

FILE	PROJECT	BRIDGE TYPE
71835	Willow Creek—Stavely	Steel Through Truss
9192	* Serviceberry Creek—Redland	Steel Girder
938	Medicine River—Forshee	Steel Pony Truss
73687	* Groat Creek—Whitcourt	Glulam Timber Girder
74225	* Lac Ste. Anne	Steel Pony Truss
7064	* Beaverlodge River—Beaverlodge	Steel Pony Truss
75877	* Boyer River—Rocky Lane	Steel Pony Truss
1714	* Kneehill Creek—Carbon	Steel Through Truss
896	* Mosquito Creek—Parkland	Steel Pony Truss
9096	* Milk River—Whiskey Gap	Prestressed Concrete Girder
75767	* Nine Mile Creek—Wagner	Steel Pony Truss
611	* Bow River—Morley	Steel Through Truss
75664	* Little Smoky River—Peavine	Steel Through Truss
70935	Hotchkiss River—Hotchkiss	Steel Girder
7429	Sturgeon River—Gibbons	Steel Through Truss
75904	Island Creek—Kinuso	Steel Girder
72702	* Ponton River—Rocky Lane	Steel Through Truss
599	* Sheep River—Davisburg	Steel Through Truss
223	* Highwood River—Aldersyde	Prestressed Concrete Girder
747	* Kneehill Creek—Sunnyslope	Prestressed Concrete Girder
1843	Fallen Timber Creek—Bergen	Prestressed Concrete Girder
72167	Red Deer River—Tolman	Prestressed Concrete Girder
2301	Sturgeon River—Gibbons	Prestressed Concrete Girder
1588	Whitemud Creek—Ellerslie	Prestressed Concrete Girder
7295	* Dogpound Creek—Didsbury	Prestressed Concrete Girder
71316	* Beaver River—Ardmore	Continuous Steel Girder
75315	* North Saskatchewan River—Heinsburg	Continuous Welded Steel Girder
13742	* North Saskatchewan River—Waskatenau	Continuous Welded Steel Girder
1435	* Little Red Deer River—Westward Ho	Continuous Welded Steel Girder
1227	Battle River—Edberg	Steel Pony Truss
878	* Sturgeon River—Bon Accord	Prestressed Concrete Girder
7815	Milk River—Milk River Town	Continuous Steel Girder
8781	Beaverlodge River—Hythe	Prestressed Concrete Girder
	* Completed 1963 - 64	

Standard Type Bridge Construction

TYPE	MAIN HIGHWAYS	DISTRICT ROADS
Standard Bridges	24	186
Steel Culverts	22	202
Timber Culverts	2	2
Concrete Culverts	2	
Stock and Pedestrian Underpasses	13	
Totals	63	390

Bridge Repairs

TYPE	MAIN HIGHWAYS	DISTRICT ROADS
Major Bridges	31	64
Standard Bridges	22	59
Culverts	8	10
Bridges painted	4	9
Totals	65	142

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

**STATEMENT OF EXPENDITURES ON MAINTENANCE AND
REPLACEMENT OF BRIDGES**

For the Year Ended March 31, 1964

MAINTENANCE

M.D., I.D., County	Total	M.D., I.D. County	Total
Head Office Supervision	\$ 24,746.84	M.D. 48	\$ 278,291.10
Salaries	287,971.17	" 52	4,847.30
Equipment	20,519.67	I.D. 58	2,974.73
D.O.H. Equipment	44,866.32	M.D. 61	12,473.19
Town of Fort Macleod	453.95	" 62	27,700.02
Special Areas 2	2,508.76	I.D. 65	16,121.75
" " 3	21,544.04	" 68	16,708.81
County 1	100,998.73	" 69	159.91
" 2	32,994.38	M.D. 71	25,310.99
" 3	21,884.98	" 72	4,780.85
" 4	36,572.10	" 75	73,717.06
" 5	11,502.49	I.D. 77	21,834.90
" 6	31,657.98	" 78	7,488.47
" 7	31,641.19	" 79	24.33
" 8	19,113.35	M.D. 82	40,767.50
" 9	37,839.65	" 84	16,388.84
" 10	54,710.76	" 87	8,854.78
" 11	22,969.17	" 89	95.29
" 12	68,878.91	" 92	71,098.84
" 13	72,650.30	" 93	19,507.97
" 14	32,845.02	I.D. 95	11,431.68
" 15	16,643.95	" 101	14,161.18
" 16	42,507.49	" 102	60,607.11
" 17	37,326.67	" 107	13,795.82
" 18	9,777.04	" 108	8,669.15
" 19	44,287.90	" 109	46,376.49
" 20	26,166.32	" 110	28,875.91
" 21	38,600.65	" 122	6,419.50
" 22	21,916.24	" 124	27,751.76
" 23	43,076.65	" 125	19,926.13
" 24	7,112.46	" 126	19,172.80
M.D. 6	46,705.39	" 128	5,804.30
" 9	43,674.89	M.D. 130	291,840.71
I.D. 10	1,438.72	" 131	504.29
" 11	21,151.15	I.D. 132	16,893.33
" 22	850.54	M.D. 133	24,930.83
M.D. 25	7,335.32	I.D. 134	45,881.75
" 26	79,574.71	M.D. 135	33,527.69
I.D. 27	26,015.91	" 136	35,473.53
M.D. 31	57,880.94	I.D. 138	40,104.99
" 34	32,366.75	" 139	11,538.23
I.D. 42	10,543.60	" 146	4,960.42
M.D. 44	75,940.74	" 147	51,398.01
" 47	31,963.12	" 149	908.07
		" 946	9,016.79
			<u>\$3,180,844.01</u>

SUMMARY

Income Account:

Appropriation 1530—Salaries	\$ 287,971.17
" 1531—Main and Secondary Highways	206,465.85
" 1532—Municipal and Improvement Districts	1,838,731.76
" 1533—Bridge Approaches	508,067.34
" 1556—Winter Works Incentive Programme	339,607.89
	<u>\$3,180,844.01</u>

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

STATEMENT OF EXPENDITURES ON CONSTRUCTION OF BRIDGES

For the Year Ended March 31, 1964

CONSTRUCTION

I.D., M.D., County		Total	I.D., M.D., County		Total
Administration		\$ 42,356.23	M. D. 47		\$ 227,068.89
Equipment		17,823.86	" 48		65,375.68
Research		17,763.12	" 55		94,048.18
Special Areas—D3		4,066.53	" 61		2,257.12
Counties 1		4,243.20	" 62		2,266.92
" 2		9,976.66	" 63		124,712.13
" 3		713,390.08	I.D. 65		25,666.73
" 4		2,050.60	" 69		154.51
" 5		87,248.86	M. D. 75		351,642.45
" 6		59,295.53	I.D. 77		67,516.46
" 7		332.33	" 78		19,765.55
" 8		8,531.56	M. D. 82		16,356.59
" 10		538,356.92	" 84		4,413.12
" 12		22,269.80	" 87		94,467.51
" 13		160,249.37	" 92		15,183.28
" 14		240,180.39	" 93		20,414.03
" 15		120,100.68	I.D. 95		39,962.79
" 16		7,705.24	" 96		25,500.00
" 17		98,949.22	" 107		40.61
" 19		215,678.53	" 109		44,098.36
" 20		51,388.48	" 121		76,046.46
" 21		10,164.19	" 124		47,090.58
" 23		1,182.99	" 125		42,238.52
M. D. 6		49,559.85	M. D. 130		43,902.97
" 9		2,027.31	" 135		8,214.96
I.D. 10		59,287.63	I.D. 138		51,544.76
" 11		51,590.28	" 143		192.67
M. D. 14		41,271.64	" 147		142,132.02
" 25		26,377.57	" 946		175,528.26
" 26		11,757.50			
" 31		201,930.37			
" 34		2.40			
" 42		70.21			
" 44		121,436.81			
			TOTAL		<u>\$4,826,418.05</u>

Roads to Resources (Bridges)

I.D. 138	\$ 51,544.76
" 147	142,132.02
Appropriation 1590	<u>\$ 193,676.78</u>

SUMMARY

Capital Account:

Appropriation 1583	\$3,775,365.99
" 1590	193,676.78
" 1595	857,375.28
	<u>\$4,826,418.05</u>

GOVERNMENT OF THE PROVINCE OF ALBERTA

DEPARTMENT OF HIGHWAYS

WINTER WORKS INCENTIVE PROGRAMME

BRIDGES BRANCH

For the Year ended March 31, 1964

I.D., M.D. County		Amount	I.D., M.D. County		Amount
M.D.	9	\$ 1,217.56	County	3	\$ 2,395.49
I.D.	11	17,093.51	"	4	18,753.20
M.D.	26	23,043.72	"	5	3,016.35
"	31	11,460.39	"	6	12,179.69
"	44	17,422.40	"	7	16,589.56
"	47	3,325.47	"	8	7,260.97
"	62	1,955.19	"	9	1,002.00
"	75	4,955.66	"	10	10,999.98
I.D.	77	6,921.12	"	11	3,780.68
M.D.	82	561.71	"	12	8,002.19
"	92	14,185.61	"	13	7,849.99
I.D.	102	11,181.88	"	15	114.64
"	109	7,467.05	"	16	17,202.97
"	124	17,020.88	"	17	3,525.73
"	125	2,615.05	"	19	5,423.24
M.D.	130	3,733.25	"	21	5,132.68
"	136	9,228.53	"	22	7,436.62
I.D.	138	27.20	"	23	5,036.54
"	139	3,906.85	"	24	1,138.03
"	146	2,946.50	Appropriation 1556		<u>\$339,607.89</u>
"	147	38,319.16			
"	946	4,178.65			

I.D., M.D., County		Amount	I.D., M.D., County		Amount
M.D.	6	\$ 23,281.12	I.D.	121	\$ 46,591.59
I.D.	10	51,431.80	M.D.	130	15,806.25
M.D.	26	11,019.07	I.D.	946	144,249.03
"	31	36,603.51	County	2	9,976.66
"	47	2,030.54	"	5	31,278.67
"	63	124,712.13	"	15	112,759.74
"	87	64,275.52	"	17	94,596.63
"	92	10,144.95	"	20	46,261.46
"	93	11,380.62	Appropriation 1595		<u>\$857,375.28</u>
I.D.	109	20,975.99			

Appropriation 1553

Job T 461 W \$3,307.74Labour Content — Winter Works
Incentive Programme.

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS

Statement of Expenditure for the Year Ended March 31, 1964

GRANTS TO MUNICIPALITIES FOR STRUCTURES AND ROADS

Bridges

City of Calgary:		
South-west Bypass	\$318,985.37	
Town of Bowness:		
Grade Separation — Highway 8	1,895.99	
City of Medicine Hat:		
Brier Park Underpass	6,595.77	
City of Red Deer:		
55 St. Underpass	1,303.17	\$328,780.30

Main Highways Construction

City of Calgary:			
South-west Bypass	\$446,650.06		
Approaches to Bowness Bridge	21,838.33	\$468,488.39	
City of Camrose:			
Storm sewers		20,842.91	
City of Lethbridge:			
Highway 3 east	53,534.98		
South-west Bypass	18,404.67		
Mayor Magrath Drive Bypass	33,392.86	105,332.51	
Town of Redcliff:			
Installing flashing lights		996.00	\$595,659.81
Appropriation 1551			\$924,440.11

SURVEYS BRANCH

Report for the Year Ended March 31, 1964

C. W. Lester, Director of Surveys

SURVEYS: Field Work

Twelve parties were employed during the field season from May 1st to October 31st, 1963. Eleven parties were employed on surveys of main highways, road diversions and miscellaneous surveys requested by other departments of the government.

One party of a private survey firm was employed on road surveys in the improvement district west of Nanton.

These parties completed three hundred and sixty-seven surveys of main highways and improvement district roads.

Two separate private survey firms were employed in the fall to survey and monument township central meridians, one company doing twelve miles south-west of Fox Creek and the other doing twelve miles north of Fox Creek. These were urgent surveys requested by the Department of Mines and Minerals for petroleum development.

The department base line surveyor completed eight miles of the thirty-second base line west of the sixth meridian between April 1st - 5th. After making all of the notes for the past winter's work during the summer they went into the field in September and by the end of November had surveyed and monumented thirty-two miles of township control meridian in the Snipe Lake area. In December this party proceeded to the thirty-first base line west of the sixth meridian completing the seventy-one miles to the Alberta - British Columbia Boundary. They then moved to the thirty-second base line west of the sixth meridian and finished the remaining forty-three miles from Bitscho Lake to the Alberta-British Columbia Boundary making a total of 154 miles all according to the third system of survey. Spirit levels were carried throughout and elevations determined on the top of the survey posts planted.

SURVEYS: Inspections

A number of inspections were made because of discrepancies found in examinations and corrections were made on the ground by the surveyors responsible.

SURVEYS: Office Work

The plans examination staff completed the examination of the following list of plans which were approved and filed or registered in the Land Titles Offices:

Department of Highways plans	340
Municipal District and County plans	432
Right of Way plans	719
Re-establishment of Corners plans	124
Townsite subdivision plans and Parcel plans	854
Wellsite plans required under OC/503/62	188
TOTAL	2,657

The map compilation office completed the following work:

Township Plans

Field books and corresponding plans examined	75
Preliminary plans compiled, river and lake traverses drawn and areas computed for number of townships	30
New township diagram edition compiled, drawn and lithographed	12
New base line plans compiled, drawn and lithographed for 37 ranges	9
Restoration surveys examined	38
Township plans reproduced	17
Settlement plans reproduced	16
A new field book reference list was produced and records of all township surveys maintained.	
Geodetic elevation data for 18 townships compiled and filed.	
Government Agencies, Surveyors and Private Companies were supplied with survey and elevation data.	

Mapping

A Grasshopper Forecast Map in 4 colours was produced for the Department of Agriculture.

A 9 colour Relief Map of Alberta was produced for the Director of Publicity.

A 1 inch to 12 miles derived base map of Alberta was produced and 19 cronar copies supplied to the Department of Mines and Minerals.

For the Department of Public Welfare, an Emergency Welfare Chart was produced, also special combined maps of the Edmonton and Calgary areas.

For the Department of Public Health, two 6-colour maps were produced and a special map showing various administration districts.

For the Department of Municipal Affairs, a 5-colour Municipal District Map, 1 inch to 40 miles, and a 3-colour index map for their annual report, were produced.

A 2-colour Alberta Highway Map was produced for the Motor Vehicles Branch.

The following maps were produced for the Bureau of Statistics as report illustrations:

- Census Divisions
- Geological Map of Alberta
- Three Mineral Location Maps
- Three Gas and Oil Location Maps
- Normal annual precipitation in Alberta
- Mean Frost-Free Periods in Alberta

A 3-colour Alberta Map showing Mobile Radio Coverage and a cronar combination of the City of Calgary Map were produced for the A.G.T.

A 3-colour Alberta Map, 1 inch to 40 miles, showing Administration Districts and Census Divisions, was produced for the Department of Agriculture.

Two base maps were produced for the Director of Publicity.

A small Alberta Base Map was produced for general use.

Survey control compilations for the area north of the Wilderness Park were commenced.

Miscellaneous Work

Two 1964 Legislative Assembly Seating Plans were produced in 2 colours, and two election forms drawn.

The compilation of place names was kept up to date and the 1963 Supplement to the Alberta Gazeteer was published on behalf of the Alberta Board of Geographical names.

62 colour separations or combinations were produced for various branches.

70 miscellaneous plans were drawn for various departments.

4,196 maps or plans were supplied to various Departments or sold to the public.

NOTIFICATION AND COMPENSATION FOR ROADWAYS:

Number of Site Titles received for custody of Department of Public Works	50
---	----

Number of Public Works Reserve Titles received	33
---	----

Number of notifications issued transferring roadways no longer required	1,851
--	-------

Number of vouchers covering payment of compensation for areas taken for roadways, etc., and amount paid as follows:

	Vote	No. of Vouchers	Amount
Main Highways	1584	979	\$993,115.38
Maintenance	1513	263	15,131.98
"	1516	1	1,069.50
MacKenzie Highway	1589	12	2,227.36
Campsites	1588	5	715.00
Approach Roads	1541	41	13,963.21
Bridges	1533	8	4,972.35
Survey	1581	5	485.71
TOTALS		<u>1,314</u>	<u>\$1,031,680.49</u>

LEASES OF ROAD ALLOWANCES:

Leases of road allowances south of Township Thirty-six continued to be handled by the Department of Lands and Forests as per Order-in-Council. North of the said township the Surveys Branch of the Department was responsible for the leasing of road allowances.

During the year forty-four new leases were issued and thirty-one free leases were in effect with the total number of leases in force being four hundred and one.

PERMITS FOR UTILITIES, ETC., AFFECTING ROADWAYS:

Seven hundred and sixty-eight applications were received for Power Transmission lines and of these, seven hundred and fifty-four permits were issued. Seven hundred and twenty-five preliminary plans were submitted.

Eight permits were issued for water pipe lines. Five permits were issued for sewer pipe lines. There were no permits issued for consumer gas lines. One hundred and seventeen applications were received for Irrigation Projects of which one hundred and seven permits were issued.

REPRODUCTIONS:

The amount of Ozalid blue line printing was 350,843 square feet as compared with 330,000 square feet in 1962 - 63.

The total value of printing done and map mounting for various government departments during the year was \$24,477.55.

The following is a summary of the work done by the Branch, described above:

	1963 - 64
Surveys required and brought forward from 1962	648
Surveys requested during 1963	323
Surveys made or cancelled during 1963	367
Surveys carried forward to 1964	604
Plans submitted and examined on behalf of Municipal Districts	432
Settlement Lot plans reproduced	16
Certificates of Title to Public Sites received	50
Certificates of Titles received of Public Works Reserves	33
Transfers issued covering lands no longer required	1851
Number of plans of Townsite subdivisions approved	854
Right of way plans examined and approved	719
Other plans examined and approved	652
Irrigation permits issued	107
Applications submitted	117
Preliminary plans of Power Transmission Lines submitted	725
Applications received	768
Permits issued	754
Water Pipe Line Permits issued	8
Sewer Pipe Line Permits issued	5
Vouchers for compensation issued	1314
Leases for Road Allowances issued	44
Leases for Road Allowances in force	401
Leases for Gravel Pits on Highway Plans	8

LOCATIONS BRANCH

Report for the Year Ended March 31, 1964

H. J. Stephens, Chief Location Engineer

During the year under review, three Engineers, one Engineering Assistant and three survey parties were engaged on location surveys of the following projects:

1. Location work was continued on the following projects—

2-G-4	Donnelly to Peace River
3-B-3	Pincher to Frank
3-B-4	Frank to B.C. Boundary
14-C-3	Highway 14 East of Edmonton
42-6	Glenwood to Waterton Dam
42-143	Junction Highway 46 to Fort McMurray

2. Location work was undertaken on the following new projects—

2A-B-3	Sheep River Valley
2-B-1	Fort Macleod Area
2-F-3	Smith to Slave Lake
3A-3	Taber to Lethbridge
3-B-1	Monarch to Lethbridge
41-C-2	Sharrow Bridge Site
42-42	Caldwell Hill
42-124	Kinuso to Swan Hills
42-143	Fort McMurray North
45-25	Genesee Bridge Site
57-B	Drayton Valley Bridge Area

Applications for permits to construct utilities across or adjacent to highways and roads under the jurisdiction of the Department were as follows in number:

Gas and Oil Pipelines	218
Power Lines	1,493
Sewer and Water Lines	13
Miscellaneous	128

Each application was checked for compliance with regulations and requirements and for possible interference with future road improvements.

During the year, increased use was made of photogrammetric processes for the evaluation of topographic controls during the study of possible alternate routes and for the location of adopted routes. Aerial photography and photogrammetric mapping for the year comprised of the following:

	Highway Strip Miles
Aerial photography	465
Mosaics	255
Contour mapping	51

The aerial photography was all done by contract while the building of mosaic and mapping was performed by the Technical Division of the Department of Lands and Forests. Ground control necessary in conjunction with mapping work, which constitutes about 80 per cent of all photogrammetric costs, was performed by personnel of the Locations Branch.

HIGHWAY LOCATIONS**Expenditures for the Year Ended March 31, 1964**

Project	Description	Total
2A-B-3	Sheep River Valley	\$ 421.83
2-B-1	Fort Macleod Area	206.35
2-F-3	Smith to Slave Lake	11,763.62
2-G-4	Donnelly to Peace River	23,695.00
3-A-3	Taber to Lethbridge	3,431.73
3-B-1	Monarch to Lethbridge	3,686.53
3-B-3	Pincher to Frank	5,564.44
3-B-4	Frank to B. C. Boundary	12,233.44
14-C-3	Highway 14 East of Edmonton	1,183.89
41-C-2	Sharrow Bridge Site	4,278.07
42-6	Glenwood to Waterton	8,648.43
42.42	Caldwell Hill	1,185.20
42.124	Kinuso to Swan Hills	25,799.47
42.143	Junction Highway 46 to Fort McMurray	28,613.23
"	Fort McMurray North	1,409.17
45.25	Genesee Bridge Site	2,435.28
57-B	Drayton Valley Bridge Area	150.00
		<u>\$134,705.68</u>

Administration:

Salaries	\$38,640.00	
Administration	3,546.19	
Equipment	1,039.38	43,225.57
Appropriation 1587		<u>\$177,931.25</u>

MOTOR VEHICLE BRANCH

H. R. Clark, Registrar

MOTOR VEHICLE REGISTRATION DIVISION

During the fiscal year ending March 31st, 1964, 569,597 vehicles were registered. This is an increase of 25,351 over the previous year registrations.

Transfer registrations processed during the year totalled 106,152. Change of address transactions on vehicle registrations = 85,222 and license exchanges from one category to another = 15,186.

1963 - 64 Registrations were as follows:

Passenger cars	391,757
Motorcycles	5,712
Dealers	2,445
Public Service and Commercial Vehicles	169,683
Total	569,597

Public Service Vehicles (Operated for Compensation)

P.S.	Freight Vehicles	5,740	
E.	Freight Vehicles—Exempted Goods	4,594	
U.	Freight Vehicles—Cities, Towns, Villages and Five Mile Radius	5,951	
L.	Liveries & Taxicabs	867	
D.U.	Drive-Yourself	798	
BUS	Franchised Buses	669	
S.B.	School Bus	3,267	21,886

Commercial Vehicles

C.V.	Business Firms (Transporting own Goods)	16,675	
X.	Miscellaneous and for Commercial Operations —Cities, Towns, Villages & Five Mile Radius	30,196	
F.	Farm Operations	86,468	
G.	Federal, Provincial, Municipal Governments	7,796	141,135

Trailers

Commercial and Public Service Trailers	6,662
Total	169,683

OPERATIONS DIVISION**CENTRAL REGISTRY SECTION**

	1961	1962	1963
Registration of Incumbrances	110,540	118,757	124,116
Notices of Seizure	3,355	3,248	3,235
Searches	47,570	56,216	59,154

DRIVERS EXAMINATION SECTION

During the 1963 calendar year a new examination centre was opened at Nanton. The total of Driver Testing Offices now stands at 79.

During 1963 a total of 74,229 road tests were given, resulting in 43,281 passes and 30,958 failures.

Restricted licenses were granted as follows:

Adequate Glasses	11,872
Area	177
All Others	11,258

FINANCIAL RESPONSIBILITY SECTION

Conviction Record

	1962			1963		
	V.H.T. Act	C.C.C.	Bylaws	V.H.T. Act	C.C.C.	Bylaws
Edmonton	11,302	1,068	14,684	14,034	1,135	17,748
Calgary	10,118	801	9,006	11,976	878	8,838
Lethbridge	1,932	123	1,948	2,027	110	1,746
Medicine Hat	792	54	286	873	67	358
All Others	15,540	1,327	2,959	19,033	1,379	3,251
TOTAL	39,684	3,373	28,883	47,943	3,569	31,941

Motor Vehicles Impounded 3,962
Suspended Drivers Listed at Year End 12,939

OPERATORS LICENSING SECTION

During 1963 a total of 50,075 licenses were issued. The Provincial total of five-year operators licenses now in use stands at 694,513.

DRIVERS BOARD OF REVIEW

The Board met on 51 occasions dealing with 1,987 cases. 873 drivers were placed on probation while 255 were ordered suspended by the Minister following Board of Review action.

HIGHWAY TRAFFIC BOARD

This Board is constituted under the Public Service Vehicles Act and has as its prime function the implementation of this Act. By delegation of Federal authority, it also administers the Motor Vehicle Transport Act (Statutes of Canada).

The Board is a body corporate and at the present time consists of the following personnel:

H. R. Clark	—Chairman
C. J. Kenway	—Member and Secretary
J. Pritchard	—Member
D. H. McCallum	—Member

The following report covers the Board's activities for the period April 1, 1963 to March 31, 1964. During this period the Board held thirteen regular meetings, one special meeting and four public hearings.

EXTRA-PROVINCIAL CARRIERS

In its exercise of administrative powers under the Motor Vehicle Transport Act (Statutes of Canada) the Board considered a large number of applications for extra-provincial operating authority either on a renewal

basis or on the basis of new applications. Of these, 591 applications were approved and operating authority certificates were granted in accordance with the following distribution:

Canadian Section:

Transportation of household goods	90
“ “ general merchandise	13
“ “ petroleum products	10
“ “ livestock	13
“ “ oilfield equipment	5
“ “ specified commodities	65
TOTAL	<u>196</u>

United States of America Section:

Transportation of household goods	5
“ “ general merchandise	7
“ “ fruit and vegetable produce	15
“ “ oilfield equipment	3
“ “ livestock	4
“ “ specified commodities	19
TOTAL	<u>53</u>

Alberta Section:

Transportation of household goods	36
“ “ general merchandise	49
“ “ petroleum products	26
“ “ livestock	10
“ “ oilfield equipment	32
“ “ lumber and building supplies	44
“ “ farm machinery	8
“ “ specified commodities	137
TOTAL	<u>342</u>

In conjunction with the foregoing the Board also granted a total of 133 requests for various amendments to certificates previously issued.

During the course of the year the Board held four public hearings in connection with applications for extra-provincial operating authority.

RECIPROCITY

The Province of Alberta has negotiated and maintains reciprocal arrangements as to the registration and operation of motor vehicles on international and interprovincial basis. As a consequence of this, the Board administers matters pertaining to any such arrangements in relation to public service and commercial vehicles.

At the time of this report the Province of Alberta enjoys full reciprocity with some thirty states of the United States of America plus partial reciprocities with four other states.

Full reciprocity arrangements are held with the following states:

ALASKA	KANSAS	NORTH CAROLINA
ARKANSAS	LOUISIANA	OREGON
CALIFORNIA	MASSACHUSETTS	OKLAHOMA
CONNECTICUT	MINNESOTA	PENNSYLVANIA
DELAWARE	MISSOURI	RHODE ISLAND
DISTRICT OF COLUMBIA	MONTANA	SOUTH DAKOTA
FLORIDA	NEBRASKA	TEXAS
ILLINOIS	NEW HAMPSHIRE	WEST VIRGINIA
IOWA	NEW YORK	WYOMING
INDIANA	KENTUCKY	WISCONSIN

Partial or limited reciprocity is in effect with:

WASHINGTON	IDAHO	NORTH DAKOTA	UTAH
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In its relation with other Canadian Provinces, Alberta has reciprocal arrangements of one type or another with six Provinces and the Northwest Territories. The provinces participating in reciprocal arrangements are as follows:

MANITOBA	—Canadian Model Agreement Signed.
ONTARIO	—Canadian Model Agreement Signed.
PRINCE EDWARD ISLAND	—Full reciprocity.
QUEBEC	—Full reciprocity on household goods and natural products of Farm or Forest only, no other.
SASKATCHEWAN	—Canadian Model Agreement Signed.
NOVA SCOTIA	—Full reciprocity on household goods.
NORTH WEST TERRITORIES	—Partial fee.

In conjunction with the foregoing, the following were issued for the year ending March 31, 1964:

(a) Motor Vehicle Reciprocity Permits	5,209
(b) Alberta Resident Plates	849

The identification plates herein referred to as “Alberta Resident Plates” are a special issue used as a means of readily identifying operators resident in Alberta for reciprocal agreement purposes.

INTRA-PROVINCIAL CARRIERS

(a) New Bus Route Certificates granted:

Best, Tom J.	Within Fort Macleod and to Airport.
Cardinal Coach Lines	Calgary to Happy Valley.
Greyhound Lines of Canada	Calgary to Alsask.
Ludwig, Peter	Drumheller to Canadian Pacific Gas Company Plant.
Harrison, William J.	Calgary to Spy Hill Jail.

(b) Discontinued Service:

Sorenson Bus Lines	Service to Botha and Gadsby.
Cardinal Coach Lines	Calgary to Happy Valley.
Sunburst Motor Coaches	Edmonton to Alder Flats.

(c) Transfer of Bus Route Certificates:

From Blue Bird Bus Sales Western Ltd. to R. McMurray.

(d) Bus Route Certificates in effect as of March 31, 1964.

Name of Bus Operator	From	To
Bannerman, C. E.	Olds	Sundre
Best, Tom	Within the Town of Fort Macleod	
Beverly Bus Lines Ltd.	Edmonton	Elk Island Park
Blue Goose Lines Ltd.	Edmonton	Namao
	"	Lac La Biche
Branch Lines Ltd.	Edson	Cadomin
Brown's Bus Lines	Drumheller	Nacmine
" " "	"	Midland
" " "	"	East Coulee
" " "	"	Riverview Park (City Only)
Calgary Gray Line Ltd.	Sight-seeing routes within the City of Calgary	
Canadian Coachways Ltd.	Edmonton	Big Bend Dam on Brazeau River
" " "	Fairview	Hines Creek
" " "	Edmonton	Lodgepole
" " "	"	Devon via Hwy. 2 - M.D. Road
" " "	"	Devon via Hwy. 16 - 60
" " "	"	Lacombe
" " "	"	Athabasca
" " "	Hwys. 43 & 33	Gunn
" " "	Edmonton	Whitecourt
" " "	"	Alta./B.C. Border
" " "	Peace River	Fort Vermilion
" " "	"	N.W.T. Border
" " "	Edmonton	Grande Prairie
" " "	Falher	Peace River
" " "	Edmonton	Alta./B.C. Border (Bay Tree)
" " "	High Prairie	Valleyview (via Snipe Lake)
" " "	Edmonton	High Prairie
" " "	Peace River	Ft. Vermilion (Paddle River)
" " "	Valleyview	Peace River
" " "	Lodgepole	Brazeau River Power Site
Capital City Sight-seeing Tours	Edmonton	Tomahawk Beach
" " " "	Tours of Edmonton	
" " " "	Edmonton	Alberta Game Farm
Cardinal Coach Lines Ltd.	Calgary	Turner Valley
" " " "	Pincher Creek	Shell Oil's Waterton Gas Plant
" " " "	Calgary	Airdrie
" " " "	Pincher Creek	Drywood
" " " "	Calgary	Sight-seeing routes in Calgary area
" " " "	Stettler	Nevis
" " " "	Rimbey	B.A. Gas Plant
" " " "	Calgary	Happy Valley Recreation Centre
City of Edmonton	City Limits	Canadian Chemical Ltd.
Diamond Bus Lines Ltd.	Edmonton	Sherwood Park
" " " "	"	Edmonton East Industrial Area
" " " "	"	Jasper Place
Dicken Bus Lines Ltd.	Bellevue	Crows Nest
" " " "	Coleman	"
Fleming, W. C.	Calgary	Ammonia Plant in Calgary
Foder, John A.	Coaldale	Lethbridge
Glacier Park Transport Co. Ltd.	Carway	Waterton Lakes National Park
Greyhound Lines of Canada Ltd.	Medicine Hat	Fort Macleod
" " " " "	Edmonton	Vegreville
" " " " "	Fort Macleod	Taber
" " " " "	Edmonton	Lloydminster via Hwy. 16
" " " " "	"	Lloydminster via Hwys. 15-16
" " " " "	"	Hinton (via Seba Beach)

Name of Bus Operator	From	To
Greyhound Lines of Canada Ltd.	Edmonton	Calgary via Hwys. 2-2A-2
" " " " "	"	Calgary via Hwy. 2
" " " " "	Calgary	Coutts
" " " " "	"	Lethbridge
" " " " "	"	Crowsnest via Hwys. 2-3
" " " " "	"	Crowsnest via Hwys. 2-2A-3
" " " " "	"	Crowsnest via Pincher Creek
" " " " "	"	Medicine Hat
" " " " "	Fort Macleod	Walsh
" " " " "	Calgary	Cardston via Hwys. 2-2A-23
" " " " "	"	3-5
" " " " "	Fort Macleod	Cardston via Hwy. 2-3-5
" " " " "	Calgary	Calgary
" " " " "	Calgary	Lethbridge
" " " " "	"	Banff Park Gate via Hwy. 1
" " " " "	"	Oyen
" " " " "	"	Waterton Lakes via Hwys. 2-
" " " " "	Edmonton	2A-23-3-5
" " " " "	Calgary	Jasper Park Gate
" " " " "	"	Waterton Lakes via Hwys. 2-
" " " " "	"	3-6
" " " " "	"	Waterton Lakes via Hwys. 2-
" " " " "	"	3-5
" " " " "	"	Banff Park Gate via Hwys.
" " " " "	"	1A-1
" " " " "	"	Walsh
" " " " "	"	Waterton Lakes via Hwys. 2-
" " " " "	"	5
" " " " "	Fort Macleod	Coutts
" " " " "	"	Lethbridge
" " " " "	Calgary	Taber
" " " " "	"	Alaska
Harrison, W. J.	Baker Memorial Sanatorium—	Calgary
Kotyshyn, A.	Two Hills	Duvernay
Lethbridge Northern Bus Lines	Hillcrest	Coleman (Vicary Creek
" " " " "	Lethbridge	Mine)
" " " " "	Lethbridge sight-seeing	Turin
" " " " "	"	Picture Butte
Ludwig, Peter	Drumheller	Horse Shoe Canyon
" " " " "	"	C. P. Gas Plant
McMurray, R.	Union Bus Depot—	Edmonton International Airport
Northland Arrow Lines	Edmonton	St. Albert
" " " " "	"	Swan Hills
" " " " "	"	Barrhead
Pierson, Arthur S.	Lethbridge	Shaughnessy
Prairie School Bus Ltd.	Red Deer	Penhold Airport
Sandmaier, W. J.	Forestburg	Forestburg Collieries Coal
" " " " "	"	Mine
Redcliff Bus Lines	Redcliff	Medicine Hat
Scheiwe, Norman	40 Ave. & 119 St.	82 Ave. & 109 St., Edmonton
Sorenson Bus Lines Ltd.	Red Deer	Penhold Airport
" " " " "	Rocky Mountain House	Red Deer
" " " " "	Consort	"
" " " " "	Stettler	Calgary
Sunburst Motor Coaches Ltd.	Edmonton	Elk Point
" " " " "	"	Chauvin
" " " " "	"	Camrose
" " " " "	"	Hardisty
" " " " "	"	Saskatchewan Border
" " " " "	"	Cold Lake via Hwy. 28
" " " " "	Camrose	Alix
" " " " "	"	Alliance
" " " " "	Wetaskiwin	Alder Flats
" " " " "	Edmonton	Marwayne
" " " " "	"	Cold Lake via Hwys. 28-28A
" " " " "	"	Wainwright
Yellow Cab Ltd.	"	Nisku Airport

The following is a summary of the mileage travelled by all bus companies for the period ending March 31, 1964:

ACTUAL MILES TRAVELLED

Gravel or Dirt Hwys.	Paved Hwys.	Total
1,528,550	7,263,714	8,792,264

PASSENGER MILES TRAVELLED

Gravel or Dirt Hwys.	Paved Hwys.	Total
43,755,919	265,848,970	309,604,889

During the year, approximately 2,469,845 passengers were carried.

SAFETY DIVISION

The Board maintains a Safety Division, which has as its primary functions, the promotion of highway safety generally and the inspection of school buses. To this end, the Division conducts extensive Traffic Safety Programmes throughout the Province. Such programmes consist of lectures and films for adults and safety classes for children, school bus drivers' schools, commercial vehicle drivers' schools, programmes for Home and School Associations, Service Clubs and Churches. As a special feature of the Safety Programme, the Division conducts car rodeos throughout the province.

Regular school bus inspections are a vital force in maintaining high safety standards in the transportation of school children.

The following is a statistical summary of the various activities engaged in by the Safety Division during the period April 1st, 1963 to March 31st, 1964:

School Bus Inspections

Total number buses inspected	2,890
Total capacity	111,973
Actual carried	101,657
Total mileage	168,403
Overload permits	221
Total tolerance	660

Car Rodeos

Number conducted	32
Total contestants	715
Total spectators	5,785

School Bus Rodeos

Number conducted	2
Total contestants	20

Bus Driver Institutes

Number conducted	12
Total attendance	438
Average attendance	36

Scooter Rodeos

Number conducted	1
Total contestants	27

Public and Separate Schools

Number visited	176
Total attendance	57,817
Average attendance	328

Home and School Associations

Number visited	25
Total attendance	893
Average attendance	36

Service Clubs

Number visited	18
Total attendance	1,217
Average attendance	67

Public Meetings

Number visited	23
Total attendance	1,788
Average attendance	77

Investigations

	59
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Conventions

	6
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T.V. and Radio

Programmes	3
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ANNUAL REPORT OF MOTOR VEHICLE TRAFFIC ACCIDENTS

NUMBER OF ACCIDENTS

1. By Month of Occurrence:

	Fatal	Non-fatal injury	Property damage only	Total
January	7	286	2498	2791
February	4	275	1686	1965
March	13	318	1509	1840
April	14	383	1384	1781
May	20	441	1459	1920
June	27	565	1774	2366
July	20	552	1841	2413
August	18	551	1775	2344
September	24	530	1720	2283
October	32	434	2517	3033
November	19	436	2792	3247
December	19	436	2792	3247
Not stated				
Total	228	5337	22691	28256

2. By Day of Occurrence:

	Fatal	Non-fatal injury	Property damage only	Total
Sunday	44	926	2954	3924
Monday	22	617	2367	3506
Tuesday	24	600	3005	3629
Wednesday	21	606	2799	3426
Thursday	31	602	2969	3602
Friday	29	802	3628	4459
Saturday	57	1184	4462	5703
Not stated				
Total	228	5337	22691	28256

3. By Hour of Occurrence:

	Fatal	Non-fatal injury	Property damage only	Total
12 to 1 A.M.	12	194	575	781
1 to 2 A.M.	6	139	431	576
2 to 3 A.M.	5	111	285	401
3 to 4 A.M.	6	68	164	238
4 to 5 A.M.	3	61	147	211
5 to 6 A.M.	2	65	174	241
6 to 7 A.M.	3	107	751	861
7 to 8 A.M.	4	136	976	1112
8 to 9 A.M.	4	127	727	858
9 to 10 A.M.	7	176	847	1030
10 to 11 A.M.	10	196	1003	1209
11 to 12 A.M.	15	272	861	1148
12 to 1 P.M.	5	236	1049	1290
1 to 2 P.M.	12	226	1206	1444
2 to 3 P.M.	14	300	1350	1664
3 to 4 P.M.	14	432	1853	2300
4 to 5 P.M.	12	470	2004	2486
5 to 6 P.M.	17	357	1326	1700
6 to 7 P.M.	21	385	1430	1836
7 to 8 P.M.	15	323	1300	1638
8 to 9 P.M.	17	241	1011	1269
9 to 10 P.M.	10	242	971	1223
10 to 11 P.M.	14	275	1061	1350
11 to 12 P.M.	4	188	1092	1284
Not stated		9	97	106
Total	228	5337	22691	28256

4. By Light Condition:

	Fatal	Non-fatal injury	Property damage only	Total
Daylight	95	2925	13117	16137
Dawn	5	64	267	336
Dusk	8	247	967	1222
Dark	119	2096	8208	10423
Not stated	1	5	132	138
Total	228	5337	22691	28256

5. By Type of Accident:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Pedestrian	26	691	126	843
Other motor vehicle	12	1452	14434	15898
Horse-drawn vehicle	1	10	11	22
Railroad train	4	25	31	60
Street car/trolley coach	7	51	58	116
Bicycle	1	146	3	150
Motorcycle	99	13	112	122
Other vehicles	70	269	339	678
Animal	7	13	20	40
Fixed object	3	341	1626	1970
Non-collision	92	191	283	566
Miscellaneous	28	244	272	544
Total	46	2959	17011	20016
Rural—				
Pedestrian	14	39	18	71
Other motor vehicle	84	877	2111	3072
Horse-drawn vehicle	4	6	10	20
Railroad train	3	16	16	35
Bicycle	3	9	1	13
Motorcycle	12	1	13	26
Other vehicles	2	59	97	158
Animal	1	45	632	678
Fixed object	15	274	815	1104
Non-collision	57	1034	1941	3022
Miscellaneous	3	9	42	54
Total	182	2373	5680	8240
GRAND TOTAL (Urban + Rural)	228	5337	22691	28256

6. By Road Location:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Street intersection	3	400	2250	2653
—with traffic light		2	10	12
—with police control	9	637	3181	3827
—stop signs or flashing light	1	156	824	981
—warning, slow signs, etc.	3	345	2013	2361
Between street intersections				
Intersection of private driveway and street or road	17	1065	6942	8024
Straight road	2	89	272	463
Curve	2	69	256	327
Hill	1	41	106	147
Railway crossing—automatic signal	1	13	43	57
—gates or watchman	4	19	30	53
—no control	1	26	196	223
On bridge	3	97	785	885
On ferry or dock				
Not stated	46	2959	17011	20016
Total	182	2373	5680	8240
Rural—				
Road intersection—without traffic control	12	117	225	354
Intersection of private driveway and street or road	23	196	386	605
Straight road	3	82	196	281
Curve	92	1257	2993	4342
Hill	30	368	920	1318
Railway crossing—automatic signal	11	204	568	783
—gates or watchman	1	6	9	16
—no control	3	18	29	50
On bridge	2	34	94	130
On ferry or dock	1	95	260	356
Not stated	4	95	260	359
Total	182	2373	5680	8240
GRAND TOTAL (Urban + Rural)	228	5337	22691	28256

7. By Road Location:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Street intersection	3	400	2250	2653
—with traffic light		2	10	12
—with police control	9	637	3181	3827
—stop signs or flashing light	1	156	824	981
—warning, slow signs, etc.	3	345	2013	2361
Between street intersections				
Intersection of private driveway and street or road	17	1065	6942	8024
Straight road	2	89	272	463
Curve	2	69	256	327
Hill	1	41	106	147
Railway crossing—automatic signal	1	13	43	57
—gates or watchman	4	19	30	53
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On bridge	3	97	785	885
On ferry or dock				
Not stated	46	2959	17011	20016
Total	182	2373	5680	8240
Rural—				
Road intersection—without traffic control	12	117	225	354
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On bridge	2	34	94	130
On ferry or dock	1	95	260	356
Not stated	4	95	260	359
Total	182	2373	5680	8240
GRAND TOTAL (Urban + Rural)	228	5337	22691	28256

8. By Road Location:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Street intersection	3	400	2250	2653
—with traffic light		2	10	12
—with police control	9	637	3181	3827
—stop signs or flashing light	1	156	824	981
—warning, slow signs, etc.	3	345	2013	2361
Between street intersections				
Intersection of private driveway and street or road	17	1065	6942	8024
Straight road	2	89	272	463
Curve	2	69	256	327
Hill	1	41	106	147
Railway crossing—automatic signal	1	13	43	57
—gates or watchman	4	19	30	53
—no control	1	26	196	223
On bridge	3	97	785	885
On ferry or dock				
Not stated	46	2959	17011	20016
Total	182	2373	5680	8240
Rural—				
Road intersection—without traffic control	12	117	225	354
Intersection of private driveway and street or road	23	196	386	605
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—gates or watchman	1	6	9	16
—no control	3	18	29	50
On bridge	2	34	94	130
On ferry or dock	1	95	260	356
Not stated	4	95	260	359
Total	182	2373	5680	8240
GRAND TOTAL (Urban + Rural)	228	5337	22691	28256

9. By Road Location:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Street intersection	3	400	2250	2653
—with traffic light		2	10	12
—with police control	9	637	3181	3827
—stop signs or flashing light	1	156	824	981
—warning, slow signs, etc.	3	345	2013	2361
Between street intersections				
Intersection of private driveway and street or road	17	1065	6942	8024
Straight road	2	89	272	463
Curve	2	69	256	327
Hill	1	41	106	147
Railway crossing—automatic signal	1	13	43	57
—gates or watchman	4	19	30	53
—no control	1	26	196	223
On bridge	3	97	785	885
On ferry or dock				
Not stated	46	2959	17011	20016
Total	182	2373	5680	8240
Rural—				
Road intersection—without traffic control	12	117	225	354
Intersection of private driveway and street or road	23	196	386	605
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—gates or watchman	1	6	9	16
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On bridge	2	34	94	130
On ferry or dock	1	95	260	356
Not stated	4	95	260	359
Total	182	2373	5680	8240
GRAND TOTAL (Urban + Rural)	228	5337	22691	28256

10. By Road Location:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Street intersection	3	400	2250	2653
—with traffic light		2	10	12
—with police control	9	637	3181	3827
—stop signs or flashing light	1	156	824	981
—warning, slow signs, etc.	3	345	2013	2361
Between street intersections				
Intersection of private driveway and street or road	17	1065	6942	8024
Straight road	2	89	272	463
Curve	2	69	256	327
Hill	1	41	106	147
Railway crossing—automatic signal	1	13	43	57
—gates or watchman	4	19	30	53
—no control	1	26	196	223
On bridge	3	97	785	885
On ferry or dock				
Not stated	46	2959	17011	20016
Total	182	2373	5680	8240
Rural—				
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—gates or watchman	1	6	9	16
—no control	3	18	29	50
On bridge	2	34	94	130
On ferry or dock	1	95	260	356
Not stated	4	95	260	359
Total	182	2373	5680	8240
GRAND TOTAL (Urban + Rural)	228	5337	22691	28256

11. By Road Location:

	Fatal	Non-fatal injury	Property damage only	Total
Urban—				
Street intersection	3	400	2250	2653
—with traffic light		2	10	12
—with police control	9	637	3181	3827
—stop signs or flashing light	1	156	824	981
—warning, slow signs, etc.	3	345	2013	23

